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ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)

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## ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976

# PHYSICAL OCEANOGRAPHY DATA REPORT

## SALINITY, TEMPERATURE AND DEPTH DATA

**CAMP CARIBOU**

**Volume 1**

**prepared by**

**Edward Bauer, Kenneth Hunkins, T. O. Manley, Werner Tiemann**

CU-8-80, Technical Report No. 8

Department of the Navy  
Office of Naval Research  
Contract N00014-76-C-0004  
Publication Support: NSF DPP-80-25211

Approved for public release, distribution unlimited

**May, 1980**

Lamont-Doherty Geological Observatory of Columbia University  
New York, N. Y.

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## ABSTRACT

A total of 1391 STD (CTD) stations were taken from four manned drifting ice camps in the Arctic Ocean during the Arctic Ice Dynamics Joint Experiment (AIDJEX) from April 1975 to April 1976. Profiles were taken at least once a day from the surface to 750 meters at all camps and weekly casts to 3000 meters were taken at the main camp. Between casts all stations ran time series by holding the sensor at a fixed depth within the pycnocline; however, these data are not discussed. Plessey Model 9040 STD units were used at all camps and data were simultaneously recorded digitally on magnetic tape and graphically on analog charts.

The profile data from the digital tapes were smoothed using a running average. The differing response times of the temperature and salinity sensors were corrected for thermal lag by varying a lag correction until one value gave nearly congruent traces on a T-S diagram for the descending and ascending parts of the cast. A salinity drift which occurred when the sensors were stopped for bottle sampling was also taken into account during data reduction.

Whenever the digital data logging (DDL) system failed to work properly, manually digitized analog traces provided data backup. These profiles, however, are not considered to be as accurate as those processed from tape.

Static calibration of the temperature, salinity, and depth sensors was provided by bottle and reversing thermometer data. Least squares, best-fit polynomials, whose dependent parameters were temperature (T) and depth (D), converted the observed data to final data. Preliminary data analysis has revealed unique features of the temperature and salinity structure in the Beaufort Sea. One of these features is a wintertime upper mixed layer between 25 and 60 m produced by brine convection beneath the freezing ice sheet. This

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layer changes from neutral to stable stratification in the summer when fresh water from melting snow and ice flows beneath the ice. Another feature is the step structure in both temperature and salinity at depths between 250 and 400 m. Individual steps are about 3 m in height. In this part of the Arctic Ocean there are mesoscale baroclinic eddies with unique temperature and salinity, as well as velocity signatures. These eddies are mostly found within the range of 50 to 400 meters. Deeper anomalies are observed to a depth of 700 meters, but because of the depth limitation of the STD, little is known about their lower structure.

This report pertains to the STD (CTD) data taken at the manned Camp Caribou. The STD data associated with the other three manned camps are in separate volumes (Bauer et al, 1980). Profiling current meter (PCM) data to a maximum depth of 200 meters were taken concurrently at the four camps and are separately reported by Manley et al, 1980.

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## INTRODUCTION

The organization and aims of the Arctic Ice Dynamics Joint Experiment (AIDJEX), with particular emphasis on the STD program, have been discussed by Amos (1975). The originally planned array of four campsites was successfully maintained on drifting sea ice from April, 1975, until October, 1975, at which time severe ice activity forced abandonment of the main camp at Big Bear, central to the array. Activities continued at the three remaining satellite camps (Blue Fox, Snowbird and Caribou) until completion of the experiment in May, 1976.

Figure 1 shows the beginning and ending positions of the four manned camps with respect to the Alaskan and Canadian coastlines and are superimposed on the dynamic topography of the Beaufort gyre. The more detailed drift tracks, with beginning and ending dates in Julian days, are shown for each camp in Figures 2-5. Appendix 1 gives the conversion from Julian (AIDJEX) days to Gregorian time, which are used extensively in this report.

The physical oceanography schedule called for a minimum of one STD (CTD) cast per day to a depth of 750 m at each site, as well as a weekly cast to 3000 m at the main camp. Between casts, time-series measurements were taken with the sensors held at a fixed depth in the pycnocline. Plessey model 9040 STD systems with model 8400 digital data loggers were used throughout the experiment with one exception. The STD sensor at Caribou was replaced by a CTD sensor (also Plessey model 9040) in January 1976. A breakdown of the stations taken at the manned camps along with the beginning and ending dates of operations are listed in Table 1.

In general, the data reduction procedures have been adopted from methods developed at Lamont-Doherty by A. Amos and D. Georgi. Their methods are oriented to shipboard STD operation and have, by now, become relatively standard. Certain aspects of dynamic and static calibration will be discussed in some detail since they relate more specifically to STD performance in an arctic environment.

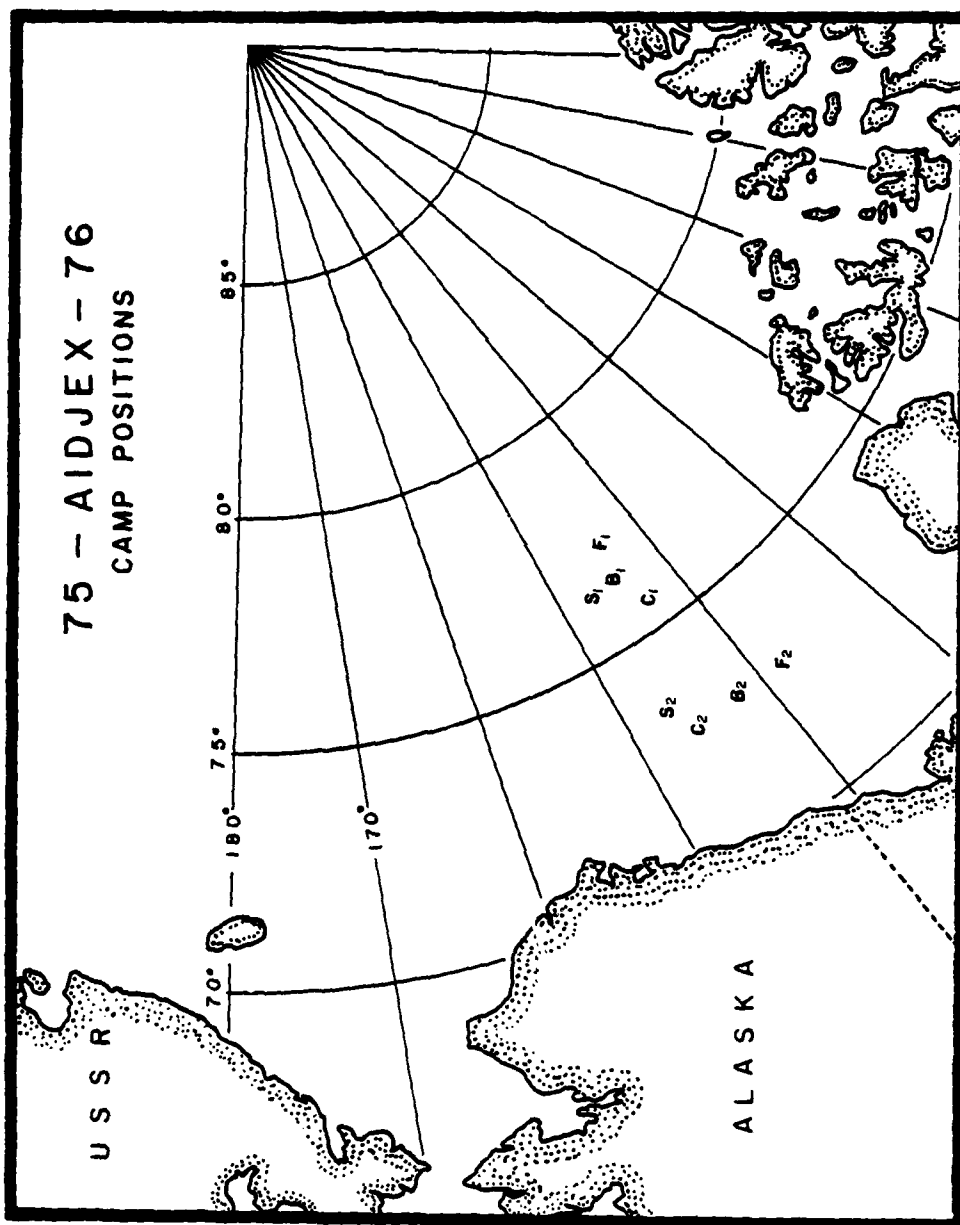


Figure 1 - Beginning and ending positions of the four manned AIDJEX camps Caribou (C), Blue Fox (F), Snowbird (S), and Big Bear (B) superimposed on the dynamic topography (dyn-m) of the Beaufort Sea (Newton, 1973). Subscripts 1 and 2 denote the beginning and ending positions of the camps respectively.

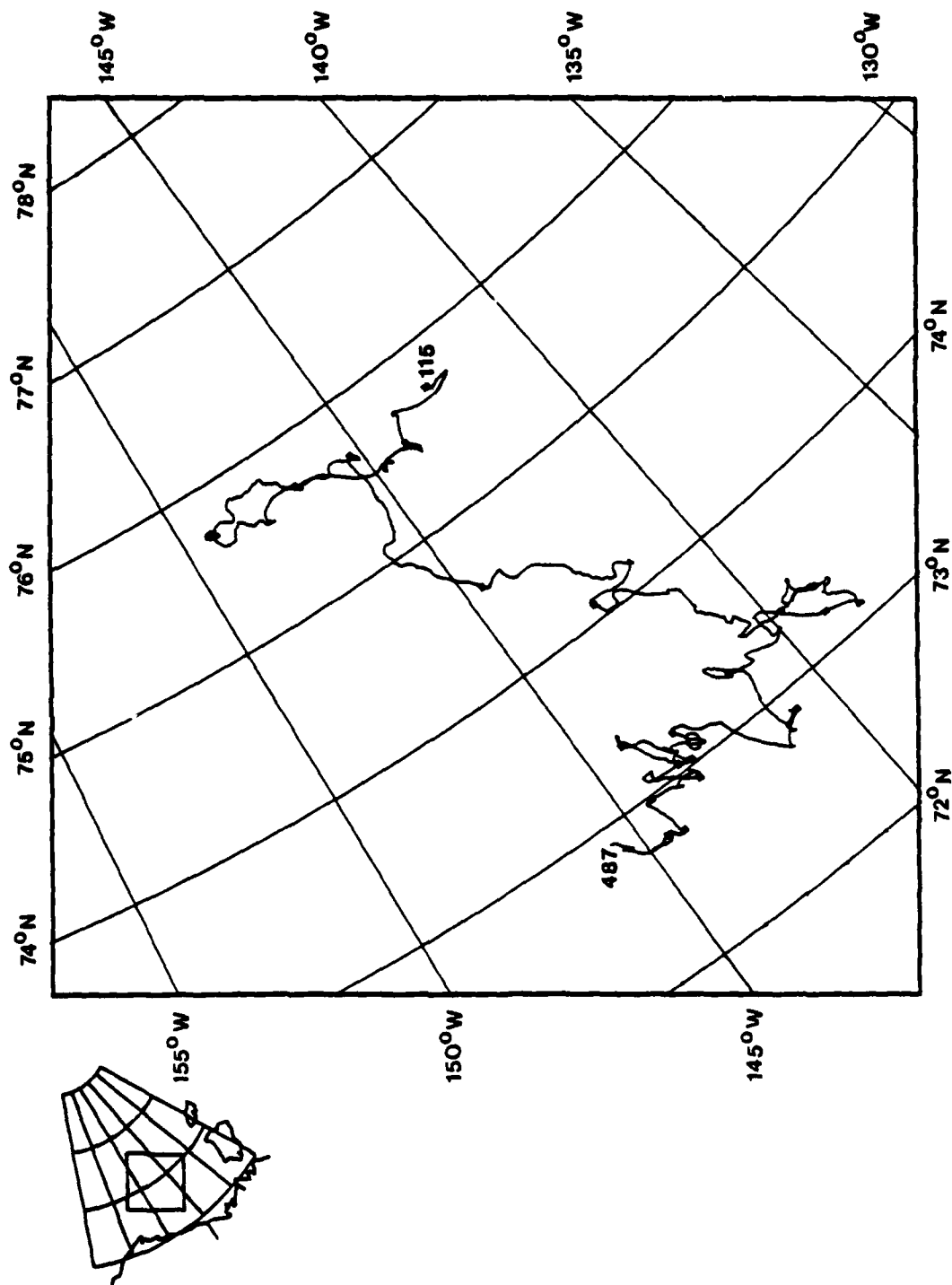


Figure 2 - Detailed drift track of the manned satellite Camp Caribou. In the early fall, Caribou became the main camp after the breakup of Camp Big Bear.



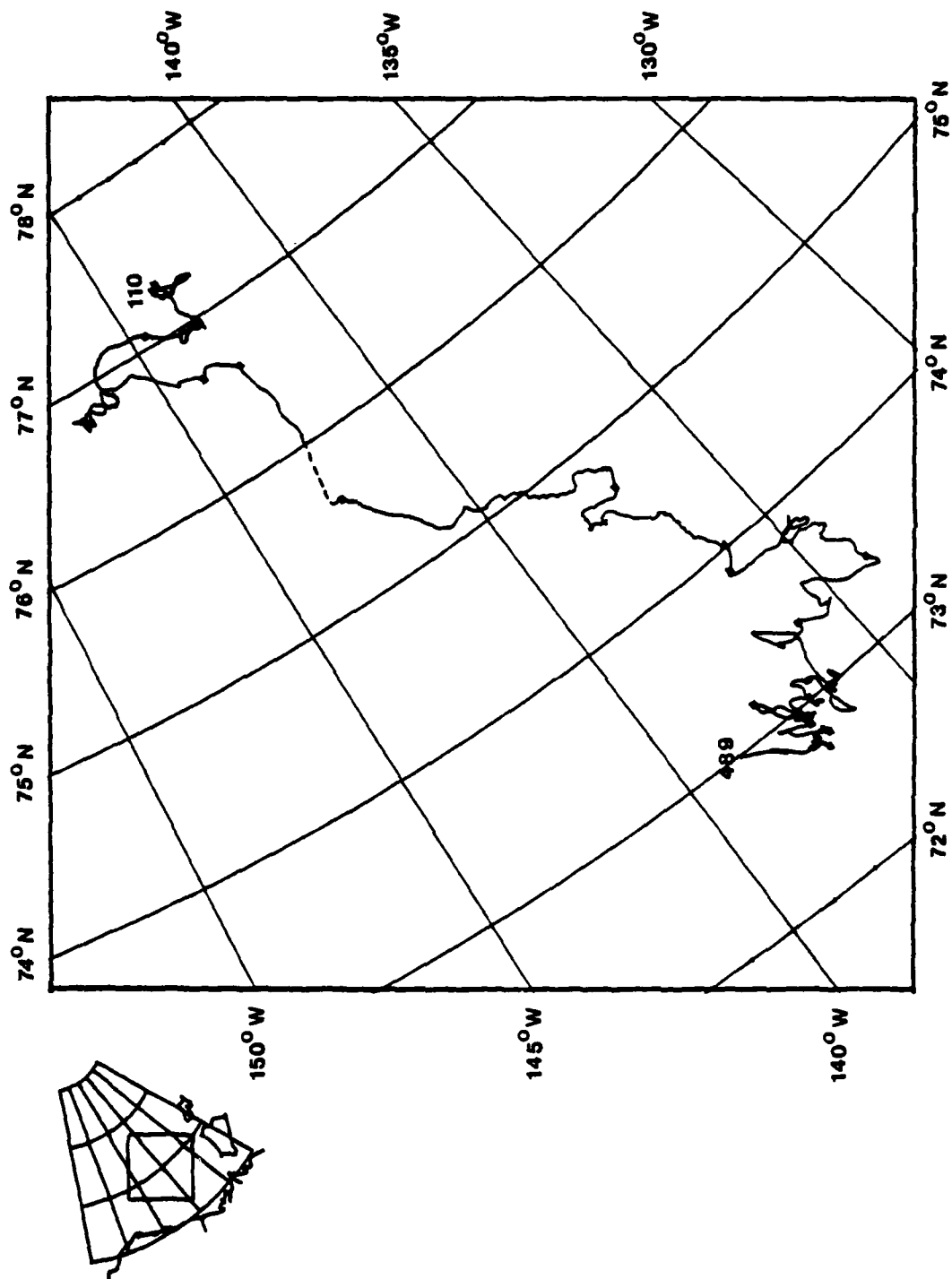


Figure 3 - Detailed drift track of the manned satellite Camp Blue Fox.

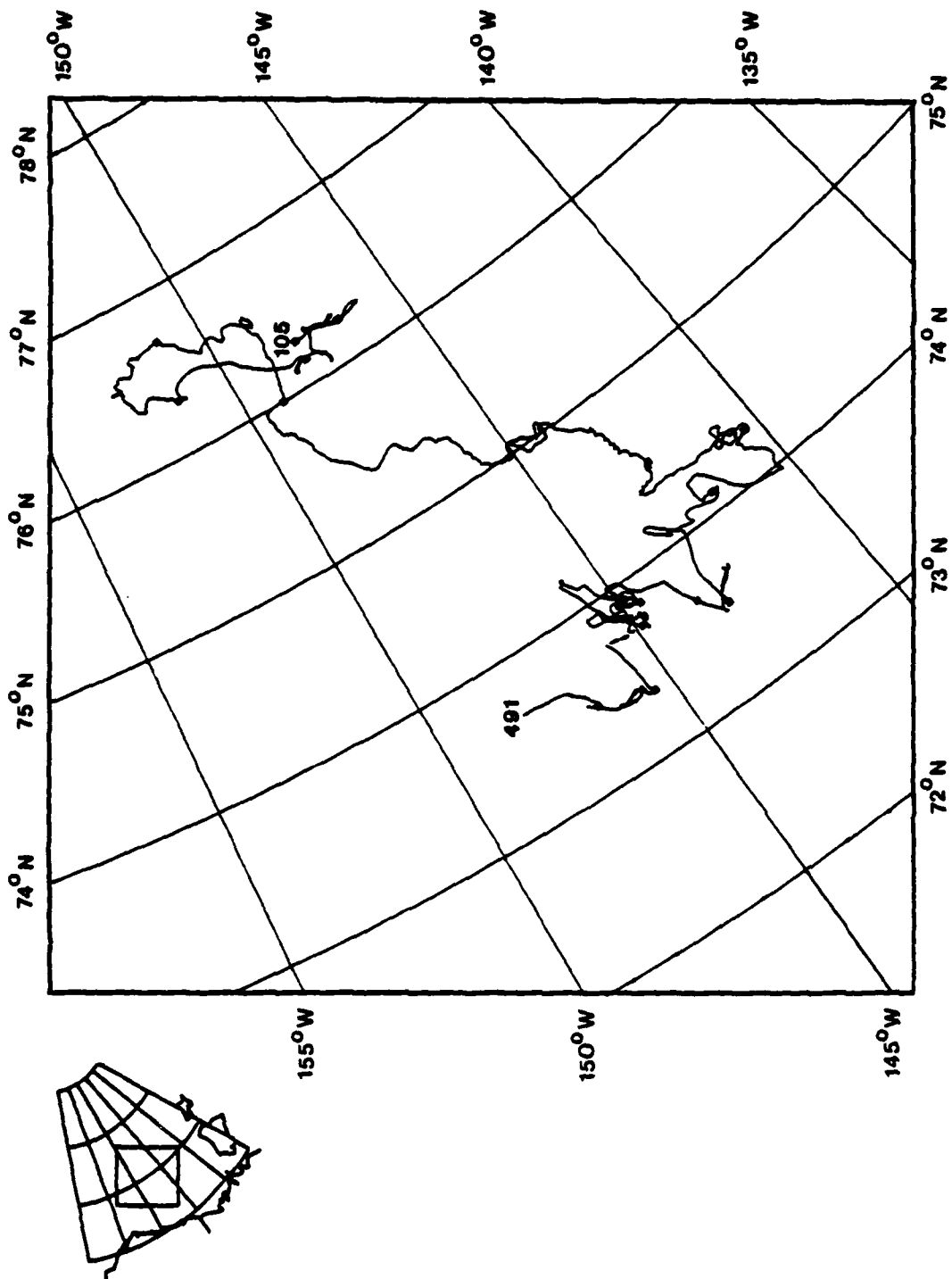


Figure 4 - Detailed drift track of the manned satellite Camp Snowbird.

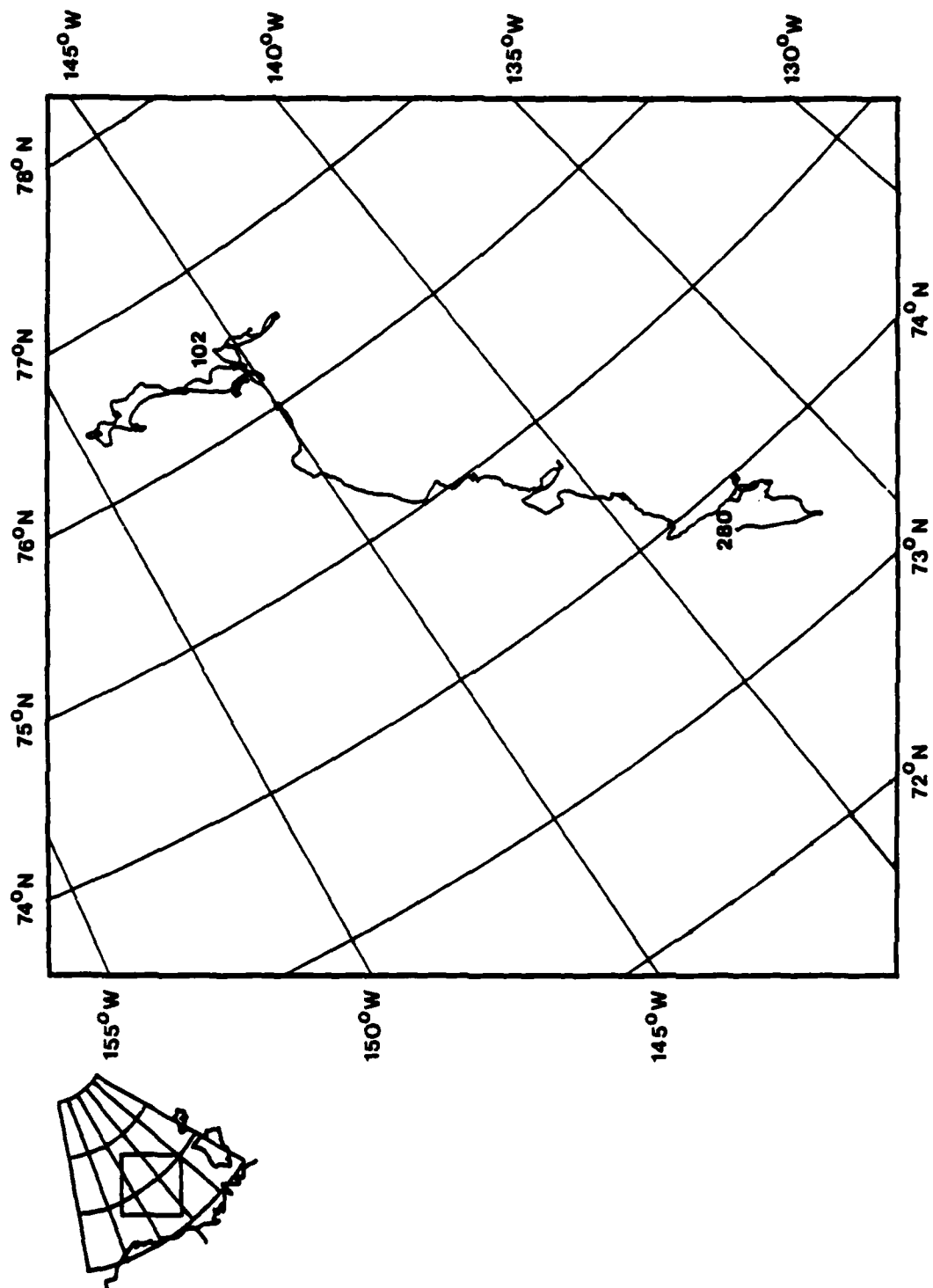


Figure 5 - Detailed drift track of the manned satellite Camp Big Bear. Near day 280, the camp was abandoned due to the breakup of the floe on which it resided.

TABLE 1

## Breakdown of STD (CTD) Stations At The Individual Camps

CAMP	OCCUPATION DATE	EVACUATION DATE	TOTAL STATIONS TAKEN	PROFILING STATIONS USED	STATIONS REJECTED	TIME SERIES	DIGITALLY RECORDED STATIONS	MANUALLY DIGITIZED STATIONS
Caribou	6 Apr. 1975 (14 May 1975)	7 May 1976 (25 Apr. 1976)	852	416	30	406	245	171
Blue Fox	5 Apr. 1975 (10 May 1975)	4 May 1976 (20 Apr. 1976)	520	310	10	200	16	294
Snowbird	4 Apr. 1975 (16 May 1975)	6 May 1976 (20 Apr. 1976)	604	299	20	285	145	154
Big Bear	13 Mar. 1975 (4 Apr. 1975)	8 Oct. 1975 (1 Oct. 1975)	562	262	44	256	20	242

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Note: Parenthetical dates are those when STD data collection began and ended.  
 "Digitally Recorded Stations" indicates profiling data taken from digitally recorded magnetic tape.  
 "Digitized Stations" indicates those profiling stations whose analog charts were manually digitized for computer reduction.

## BACKGROUND

From the time of Nansen's drift on the FRAM at the end of the 19th century, which marked the beginning of arctic oceanography, until planning for AIDJEX began in 1969, considerable information was collected on oceanographic parameters in the Arctic Ocean. This information was primarily salinity and temperature observations using classical water bottle and reversing thermometer methods at many locations. These data led to the identification of the primary water masses and gave some idea of their spreading throughout the basin (Coachman, 1963; Coachman and Aagaard, 1974).

Following the general classification of Coachman (1963), three distinct water masses are persistent throughout the Arctic Ocean. It is only in the subdivisions of the water masses that differences can be observed between the eastern and western Arctic Ocean. The major water masses and their subdivisions are listed below:

- 1) Surface Water (Arctic Water) - Extends to a depth of 200 meters and is generally low in salinity with temperatures usually less than  $-1.0$  degree C. Below the mixed layer lies a very steep pycnocline which is primarily determined by salinity. Temperatures at these latitudes are at or close to the freezing point and vary only slightly. As a result, density is controlled mainly by salinity. Subdivisions within this Surface Water are:

- a) A mixed layer of relatively low salinity which varies both seasonally and spatially. During the winter months, the mixed layer is well established due to wind and ice stress near the surface but more predominantly due to brine convection during the freezing of open water to form sea ice. Spatial variations in the mixed layer salinity appear to increase monotonically from the coast of Alaska (27 ppt) to Franz-Joseph Land (approximately 33 ppt) neglecting near coastal areas. Temperatures in the

mixed layer are at or very close to the freezing point. During the summer months, fresh water is added to the mixed layer via melting of the upper few feet of the permanent pack ice. Also, the winter mixed layer may be broken up into step-like features due to episodic events of fresh water addition and mixing, or may not exist at all.

b) The Pacific summer water is marked by a shallow temperature maximum confined to a depth range of 50 to 130 m. The maximum temperature varies from 0 to -1.5 degrees C, depending on the location in the western Arctic. The water has its origin from the Bering Sea as it enters through the Bering Straits and is further modified in the Chukchi Sea before being advected into the Arctic Ocean (Coachman and Aagaard, 1974). This water loses its identifying characteristics as it moves out of the Chukchi Sea into the deep Arctic Ocean due to lateral and vertical diffusion of heat and is, therefore, not seen in the eastern Arctic Ocean. During AIDJEX, a decrease of almost 0.5 degrees C was observed in the Pacific T-max layer over the course of the experiment.

c) Winter shelf water that has been advected along isopycnal surfaces and in the eastern Arctic occupies a layer from the base of the mixed layer to the upper reaches of the Atlantic water. In the western Arctic, this layer is directly under the Pacific T-max layer and is a local temperature minimum (approximately -1.5 degrees C) centered at approximately 175 meters.

2) The Atlantic layer extends from a depth of 200 to 900 meters. This water enters the Arctic Ocean via the Greenland-Spitzbergen passage. This layer has temperatures greater than 0 degrees C with a maximum temperature between 300 and 500 meters. In the upper section of this layer, salinity rapidly increases up to a depth of 300 meters where the vertical gradient in

salinity is substantially reduced. Salinity values are close to 35 ppt at a depth of 900 meters irrespective of spatial position.

3) Bottom water, which occupies the remaining water column, is at potential temperatures less than 0 degrees C. The potential temperatures in the Canada and Markarov Basins (-0.5 degrees C) are slightly warmer than the -0.9 degrees C. temperatures observed in the Amundsen and Nansen Basins. This is due to the shallow sill depth of the Lomonosov Ridge which prevents water deeper than approximately 1550 meters in the Eurasian Basin from entering the Amerasian Basin.

Prior to AIDJEX the data taken in different locations were generally not synoptic, but the stability of the density field allowed sections from different years to be combined. This led gradually to a knowledge of mean salinity and temperature fields and the general circulation of the water masses. The steady-state density and velocity fields came to be understood on the basin-wide scale. An important addition to knowledge on these scales was made by Worthington (1953), when he identified the clockwise Beaufort gyre which circulates in the area of the AIDJEX array.

Observations of some smaller scale features and transient phenomena were conducted from Fletcher's Ice Island (T-3) and from Station Alpha during the IGY. A number of intriguing oceanographic features were noted. Surface waves were detected in the ice-water system. These were of long period, 10-15 sec., but only millimeters in amplitude (Hunkins, 1962). Internal wave study with thermistor strings was also begun. Current meters of various types were deployed and there were early hints of the swift transient undercurrents at relatively shallow depths. Frictional effects beneath the ice also were investigated from pack ice near T-3 and a spiral behavior of the current

vector with depth was seen which closely followed the theoretical behavior predicted by Ekman many years earlier (Hunkins, 1966). There had also been detection of intriguing step structures in temperature in the depth range of 100-300 m (Neshyba et al., 1971).



## THE OCEANOGRAPHIC FIELD EXPERIMENTS

In order to better determine scales of time and space for the important motions, as well as to test instruments and techniques, several pilot projects preceded the main AIDJEX project. In 1970 and 1971 hydrographic stations and current meter observations were made by participants from the University of Washington. Current meter profiling was conducted by the Lamont group at the 1971 camp. In 1972 a one-month comprehensive pilot project included a main and two satellite camps in a 100 km triangular array from which hydrographic stations were taken (Newton and Coachman, 1973). At the main camp, current profiles to 180 m (Hunkins, 1974 b, c) and continuous salinity and temperature profiles to 1000 m four times a day were taken. A unique oceanographic experiment, possible only on pack ice, was also conducted when Weber and Erdelyi (1976) measured changes in the tilt of the sea ice and fluid ocean with a hydrostatic level.

The 1972 project showed that the experiments planned for 1975-6 were feasible and pointed directions for improvement of instruments and techniques. The data, although only one month in duration, showed interesting and somewhat unexpected features.

The presence of energetic eddies with diameters of 10 to 20 km and speeds of up to 60 cm/sec was one of the most striking of these features (Hunkins, 1974 b; Newton, 1973). The 1972 project also stimulated efforts toward quantitatively assessing the drag of ice on the water. This led to such contributions as a momentum integral technique for direct measurement of this drag and to discussion of the drag produced by pressure ridge keels (Hunkins, 1974 a, 1975 a, b).

The oceanographic program for the main experiment of 1975-6 was designed to insure uniform observations at all four manned camps with supplemental observations at the main camp. Salinity and temperature were monitored with Plessey Model 9040 STD (CTD) systems. The satellite camp STDs were limited to a depth of 750 m by the winch systems and depth sensors. The main camp was limited to 3000 m by the depth sensor. Data were recorded digitally on magnetic tape with Plessey Model 8400 digital data loggers (DDL) and also graphically on charts. Casts were taken twice each day to 750 m at all four camps on a synchronized schedule. A weekly cast to 3000 m was made at the main camp. Between casts the sensors were suspended in the steep density gradient at about 50 m to record a time series of fluctuations.

Profiles of relative current speed and direction were also measured twice each day between the surface and 200 meters at each of the four camps. Times of the stations were designed to correspond as closely as possible to the STD stations taken at the camp. Final absolute velocity data at each of the four manned camps have been published (Manley et al, 1980 a, b, c, d).

In retrospect, the instruments functioned reasonably well and the basic goals of the project plan were accomplished. The Plessey STD (CTD)s were a model which our laboratory had used previously and we were prepared for difficulties which might be encountered. However, the Plessey Model 8400 digital data loggers were new models and we experienced various problems with them. This resulted in some salinity and temperature data being recorded only on paper charts which were later manually digitized.

During each cast, reversing thermometers and Nansen, as well as Niskin, bottles were used to collect water samples. Generally, two bottle samples were taken from the satellite camps during each station. The main camp,

however, had a rosette command sampler and took as many as ten bottles per station; the average being four.

To provide adequate calibration for the sensors, bottles and thermometers were rotated to different depths at each new station. The depths used for calibration purposes at all the camps were 5 meters (mixed layer), 250, 400 and 750 meters. A 3000 meter calibration point was used only at the main camp.

Water samples were stored in tightly sealed 450 ml glass bottles. Roughly every two weeks, the samples were flown from the satellite camps to the main camp where salinity values were determined. A Guildline Autosol laboratory salinometer was the principle instrument for measuring the salinity of samples taken with water bottles. It developed trouble in Spring 1975 and was not useable over the summer. A Hytech salinometer provided backup during this period.

## DATA PROCESSING

### Dynamic Calibration

Figure 6 shows the flow of the STD data processing stages. Initial screening of the raw data to remove spikes and discontinuities was done by computer so as to keep the data in a time series to correct for temperature lag. Bad data were either replaced by interpolated data or, if extensive, the time series was terminated and restarted when good data were again available. Thus, some gaps appear. Smoothing was done by applying a 3-point running mean to the temperature and salinity data and 7-point running mean to the depth data. The larger depth window was chosen because of the relation between digital resolution of the depth channel (0.3 m) and the slowest lowering rate.

In general, the dynamic response characteristics of an STD sensor depend primarily on the time constant of the temperature compensation probe since that of the conductivity cell is negligible by comparison. In practice, however, although the probe constant for Model 9040 STD is quoted as 0.35 sec. by the manufacturer, analysis of output data by different investigators using different methods has yielded estimates ranging from about 0.2 to 3.0 sec. (Scarlet, 1975; Goulet and Culverhouse, 1972). Apparently a certain variability can also result when the same method is applied to different sensors or to the same sensor under different conditions. Therefore, the AIDJEX data set, which comprises output from a number of STD sensors over an extended period of time, required careful analysis.

The bias associated with the dynamic response of individual sensors is, in fact, detectable, and a method which aims at compensation has been incorporated in the data reduction procedure. The screened, smoothed raw data are retained as an evenly spaced time-series in depth, salinity and

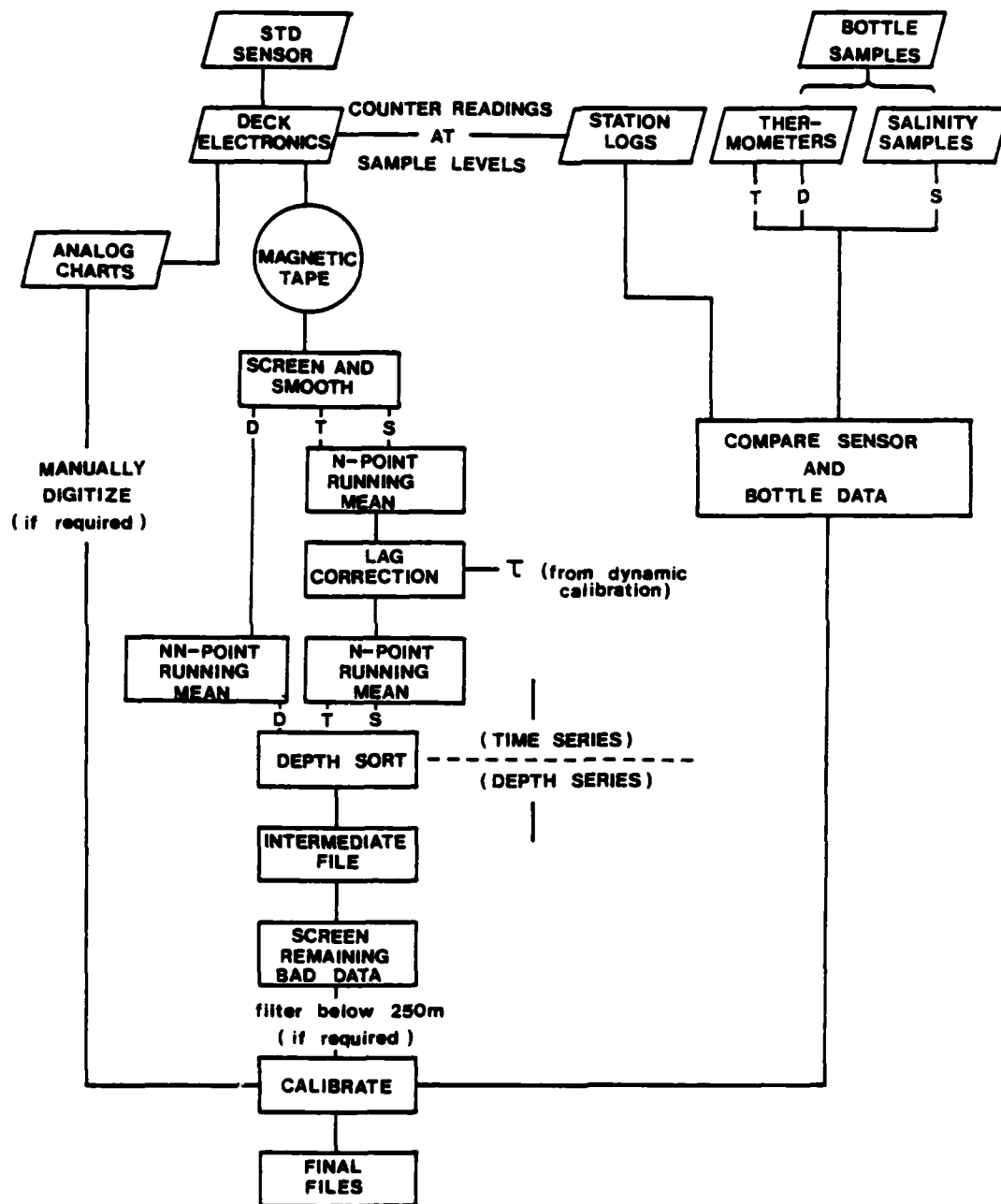


Figure 6 - STD Calibration Flow Diagram

temperature (D, S, and T) so that the time-rate-of-change of sensed temperatures ( $\partial T/\partial t$ ) can be computed.

A correction for the time response lag of the temperature sensors is then applied to parameters T and S before the series is sorted for increasing depth. The correction is based on the assumption suggested by Scarlet (1975) that response is exponential with a time constant,  $\tau$ , such that

$$T' = T + \tau \frac{\partial T}{\partial t} \quad (1)$$

$$S' = S + \frac{\partial S}{\partial T} \times \tau \frac{\partial T}{\partial t} \quad (2)$$

where T, S and T', S' are the sensed and corrected parameters, respectively. The  $\partial S/\partial T$  term is assumed to be a constant, -1, since, for the temperature and salinity range of interest here, this assumption produces less error than the uncertainties in the other terms. The major source of error is in the computing of  $\partial T/\partial t$ . DDL resolution in temperature is  $\pm .003^\circ\text{C}$  but this may be degraded somewhat by noise. However, careful consideration of the sample rate and the range for smoothing and computing the temperature slope can give a workable computer approximation of equations 1 and 2. Once the correction model is established, we can return to the data for an estimate of what  $\tau$  should be.

A typical STD profile of the arctic water column is shown in figure 7. The trace is relatively free of the "spiking" normally associated with accelerations of ship's motion and rapid drop rates of a ship-launched cast. The sharp changes of the temperature gradient which trigger such spikes are

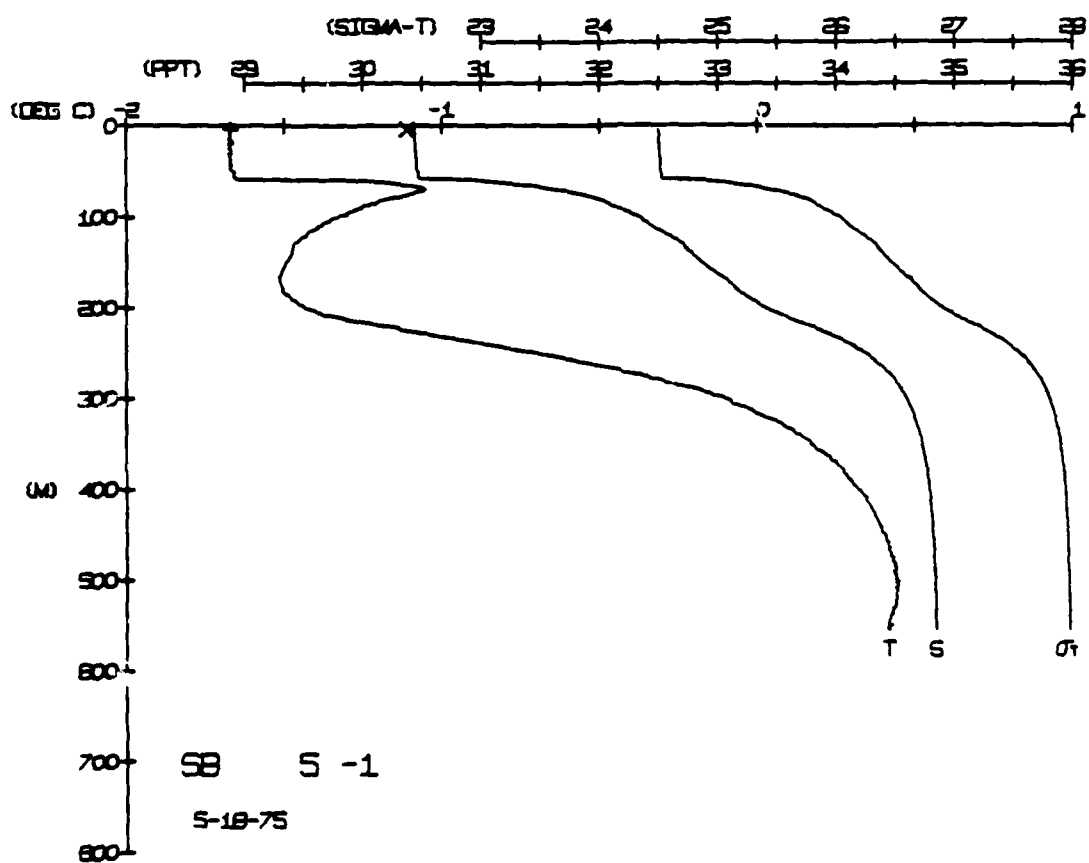


Figure 7 - Normal STD- $\sigma_t$  profile of Beaufort Sea.

absent in the Arctic Ocean with the exception of one notable feature: the temperature interface at the base of the mixed layer. Rather than a spike, what is produced here is an apparent offset, primarily in salinity, which is related to the response lag of the temperature sensors and which is sustained below the interface until the temperature gradient subsides. Dantzler (1974) in particular has pointed out the importance of this kind of systematic error.

We have focused our attention on the mixed-layer interface since it is the only feature generally present in the Arctic Ocean which is sufficiently large in temperature scale to afford some appraisal of sensor dynamic response. The interface, since it is remarkably well-defined and relatively stable over an extended period of time, lends itself to repeated sampling. When the mixed layer is well-established, a typical raw data printout will show the onset of the interface as two distinct events, one in salinity and then one in temperature lagging one or more scan intervals behind. (Scan intervals were generally 0.5 sec; occasionally 0.1 or 1.0 sec.) Although judgement was restricted to scan-interval resolution by this approach, a preliminary survey of data from the four station sites did indicate apparent sensor-dependent differences in response lag time. To investigate further, downtrace and uptrace T-S diagrams of the same profile were compared for a number of stations. Typical results are shown in figure 8. The uptrace (dotted) is always offset toward lower salinity along the mixed layer interface. According to equation 2, this is expected since the sensor sees the temperature change ( $\partial T / \partial t$ ) as positive on the downtrace and negative on the uptrace. When the correction model is applied to this data, the time constant  $\tau$  can be adjusted so as to minimize the offset between the traces.

This approach is readily implemented as a calibration procedure using a CRT computer terminal to monitor T-S diagrams. The time constant for the



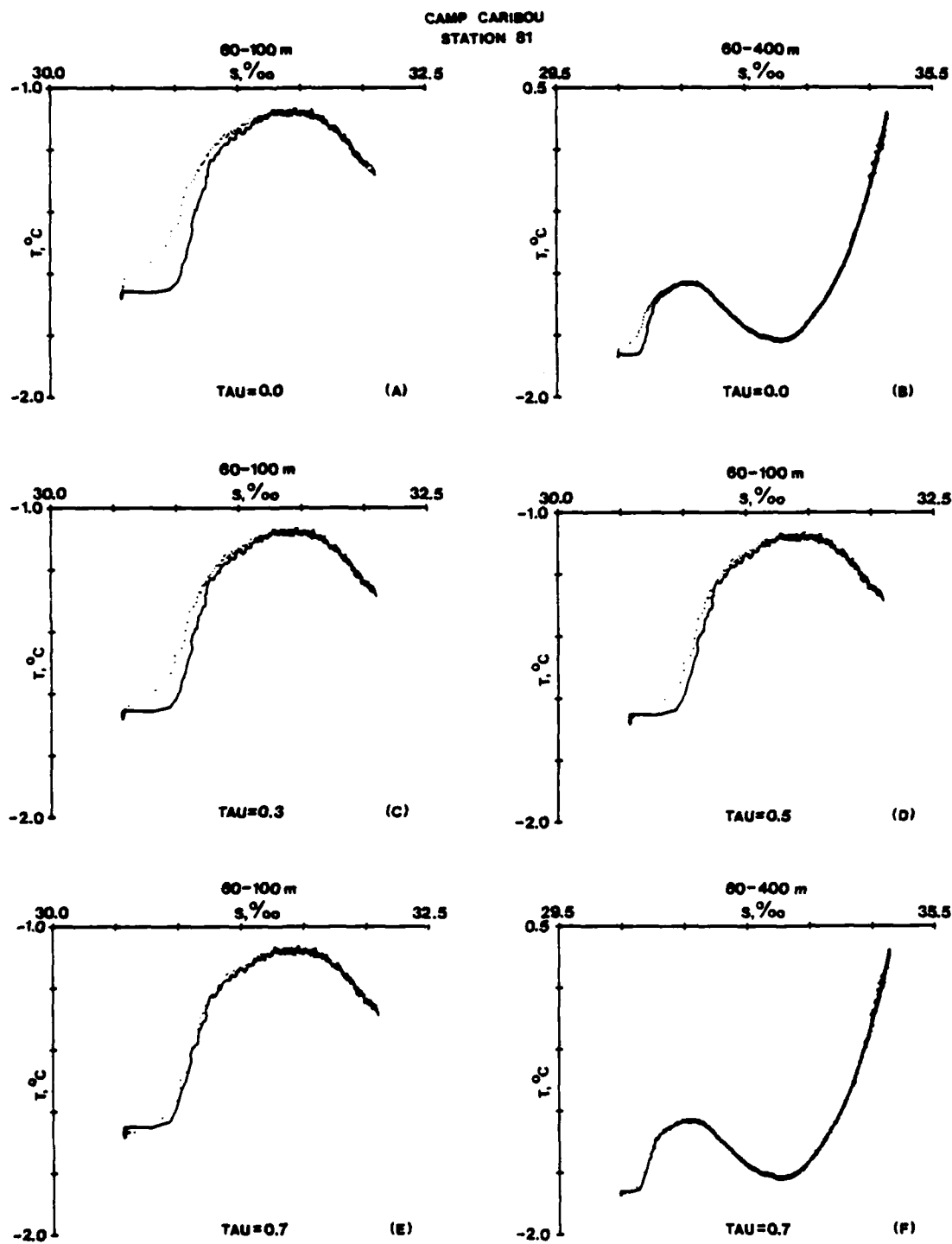


Figure 8 - T-S Diagrams showing the effect of varying the time constant for dynamic calibration

correction model is adjusted at selected station intervals in the data set to compensate for observed trends in sensor response. Results for a number of sensors are summarized in Table 2. The reason for the unusually slow response of the sensor at Big Bear is unknown, however, and a nominal value of 2.0 sec. is used.

The extent to which the values in Table 2 can be interpreted as valid indices of sensor dynamic response depends, of course, on certain assumptions. The interface feature is regarded as unchanged over the lapse of time (generally 1 to 1 1/2 hours) between downtrace and uptrace of any given station. Station records do, in fact, indicate that changes at the interface are slow, particularly from January to early June. Moreover, short-term changes would cause erratic adjustment of  $\tau$ , and this is not observed; the trend for any one sensor tends to be slow. The assumption that response lag in temperature is the dominant cause of offset between downtrace and uptrace also ignores other kinds of hysteresis and the effect of mixing by movement of the instrument package through the interface. In the case of mixing it might be proposed that the maximum effect occurs on the uptrace when the instrument wake precedes the sensors, entraining saltier water at the interface. The observed offset is toward lower salinity, however, and argues against the significance of this process. It should also be noted that calibration may require some subjective interpolation between stations which fall within the summertime breakup of the mixed layer when the step-like definition of the interface is periodically absent or less well-defined. In general, the results imply that there is a seasonal disparity of response characteristics among the different sensors, and that the response of an individual sensor may vary over an extended period of operation.

Once the determination of  $\tau$  was completed, uptraces were eliminated from the data set unless no downtrace was available. This was done to remove any mixing effects produced by the wake of the sensor package as it is pulled upward through the water column and which might be registered by the sensors which are attached at the base.

As can be seen from equations (1) and (2), temperature and salinity lag corrections no longer become necessary as the temperature gradient becomes very small and varies smoothly with depth. Below 400 meters in the Beaufort Sea, temperature lag corrections rarely attain a magnitude of  $0.004^{\circ}\text{C}$ , and in the vast majority of cases it is less than  $0.002^{\circ}\text{C}$  which is less than the resolution of the DDL temperature and salinity data. As a result, no temperature and salinity lag corrections were made below 400 meters. It should be stressed, however, in other parts of the Arctic Ocean this step might not be applicable because of the dynamic structure of the temperature gradient above 1000 meters.

The time lag corrections were then applied to the smoothed temperature and salinity (conductivity) data, and the data then sorted according to increasing depth.

TABLE 2

Time Constant Ranges for Dynamic Calibration Periods

Division into periods based on change of sensor, change of sensor components, or unexplained shift in observed response. Change of time constant is approximately linear between limits of each range. Unless noted - time constants are for STD sensors only. Station data that are missing (i.e., Big Bear: 1-49, 87-562) indicate manual digitization of the analog charts and therefore do not require a time constant,  $\tau$ .

<u>Camp</u>	<u>Calibration Period (Station Nos.)</u>	<u>Time Constant Range (Sec.)</u>
Big Bear	49 - 86	2.0
Snowbird	1 - 248	1.0 - 0.7
	249 - 299	0.7 - 0.5
	300 - 362	0.7 - 0.8
	530 - 604	0.8 - 1.0
Caribou	1 - 82	0.5 - 0.7
	83 - 222	0.7 - 0.5
	223 - 309	0.5 - 0.4
	310 - 558	0.5
	559 - 852 (CTD)	0.5
Blue Fox	1 - 20	0.5 - 0.8
	21 - 60	0.8 - 1.0
	61 - 97	1.0

### Manual Digitization

During field collection, the data of each cast were also simultaneously recorded on analog chart recorders. Wherever the DDL system failed to function properly for any given number of casts, the corresponding analog charts for these casts were manually digitized to provide the missing temperature and salinity (conductivity) data. On the average for all camps, manually digitized profiles comprised 67 per cent of the final data.

Resolution of the digitizer is .001 inches, but was limited to .01 inches by choice since it was felt that this still provided adequate resolution for the determination of temperature, salinity (conductivity) and depth. The accuracy of this process, however, is limited. Because units of temperature, salinity and depth are dependent upon their place within the chart system (even to the width of the ink line) the failings of the human hand and the subjective judgements made tend to enhance any errors in proportion to the analog scale.

The accuracy of this data will be discussed in a later section.

### STD Static Calibration Procedures

Bottle data consisting of protected and unprotected thermometer readings, and salinity determinations from the water samples taken at preselected depths of 5, 250, 500, 750 and 3000 meters provided the bulk of the data necessary for the calibration of the salinity, temperature and depth sensors. Recorded information pertaining to the output of the three sensors taken from the deck unit readout at the instant that the instrument was stopped provided the remaining data required for the calibration procedure. The information mentioned above was punched onto computer cards along with their appropriate station identification parameters and stored on the computer. Delta values between the recorded values and the bottle data at the depth levels of 5, 250, 400, 750 and 3000 m were then calculated and stored on file along with the original input data.

Preliminary quality control checks were done on the calibration data after it had been stored on file. These checks consisted of looking for delta values of salinity, temperature and depth outside a given tolerance range for each parameter. When data of this type were found, it became necessary to evaluate the validity of the values on the basis of technical logs and other possible sources of errors, such as incorrectly punched input. In the majority of cases, an explanation for excessive delta values was found and the data were repunched and again submitted to the data set. Of the 5 per cent of the calibration data set that required this special editing, less than 40 per cent of the data points were rejected because of technical problems.

In each camp calibration data set, sudden shifts in the delta values for any or all of the sensors would occur, thereby breaking the data set into time segments. These breaks in the data would sometimes agree with the technical log notes indicating some adjustment of the conductivity cell or temperature

probe or even when the entire instrument package was replaced. Occasionally, however, there would be unaccounted shifts in a sensor, that never-the-less created a natural break in the calibration data. Each parameter of salinity, temperature and depth was observed separately for these offsets in the data, since the sensors operate separately from each other and may alter at any given time. Generally, however, breaks in the data occurred for all sensors at the same time. The resulting time segments also followed, for the most part, the calibration periods indicated in Table 2.

Within a calibration segment of a particular sensor at a given depth level, it was necessary to consider the possibility of a time dependency on the delta values. Because of the cyclic nature of taking bottle data at the satellite camps (since they only had 2 bottles and 4 levels to maintain), data were rarely dense enough to justify a time dependency versus a constant offset based on least squares best fit and corresponding standard deviations correction. Only in a few rare cases were the delta values fit to a linear time drift.

Depth dependency of the various sensors within every calibration period was also calculated using least squares best fit polynomials. Their associated standard deviations and plots of the polynomial against the delta values were the criteria used to determine the polynomial of least degree that would best fit the data. In practice, the temperature sensor was never depth dependent and this agrees with previous work done with the Plessey STD and CTD.

Depth and salinity, however, were always depth dependent. Depth was normally quadratic in dependency while salinity was generally cubic. There

were special cases for the depth and salinity sensors, where depending on the number of points present, linear to cubic fits were considered the best choice.

At the end of the calibration procedure for an entire camp there would be 3 delta functions for every point in time that would convert intermediate STD values to final calibrated data, as shown by equation 3.

$$S_f = S_i = P_{sn}(d,t) \quad (3)$$

where     $s$  = sensor (temperature, salinity or depth)  
          $f$  = final data  
          $i$  = intermediate data of temperature and salinity logged from digital data or digitized data  
          $P_{sn}(d,t)$  = calibration polynomial for sensors and correct calibration segment  $n$ ;  $(d,t)$  implies possible depth and time dependency

Using the polynomial equations for temperature salinity and depth, it was then possible to provide final calibrated STD data using either the intermediate data obtained from digital tape or manual digitization.

It is important to stress that during the entire calibration procedure, uncorrected depths were used as the basis for determining the delta values for temperature, salinity and depth.



### CTD Calibration Procedures

Due to the differing natures of the STD and CTD, calibration procedures vary considerably. Mechanically the systems are similar. Each consists of a conductivity cell, temperature and depth sensors. The difference lies in the sensor output and the electronics controlling it.

In the case of the CTD, all three sensors measure values independently and are recorded as such. Salinity, however, is a complex function of conductivity, temperature and pressure (depth). Therefore, a value for salinity must come from the instrumentation of the STD itself. In the Plessey systems, this is accomplished by the use of two sets of temperature and depth sensors; one set providing only temperature and depth values to the surface deck unit, the other set providing data internally and which will be processed with conductivity to produce salinity. It is because of this second set of sensors that the complex equation for salinity, which is non-linear with respect to temperature, contains the lag corrections of equations (1) and (2). (It is assumed in data reduction that the two sets of sensors function identically. The validity for this is borne out in practice and previous experience with Plessey STDs). On the other hand, the conductivity cell of the CTD, being independent, has a rapid response time of 0.01 sec. (Plessey operations manual) and so a lag correction similar to equation 2 is unnecessary.

The CTD was used at Camp Caribou from stations 559 to 852 inclusive. However, the evaluation of the time lag constant,  $\tau$ , proved to be difficult. Unfortunately, the field operator consistently chose to stop the CTD at the base of the uptrace. Only a few stations in the CTD data set allowed some estimate of the  $\tau$  constant to be made at a value of 0.5 sec.

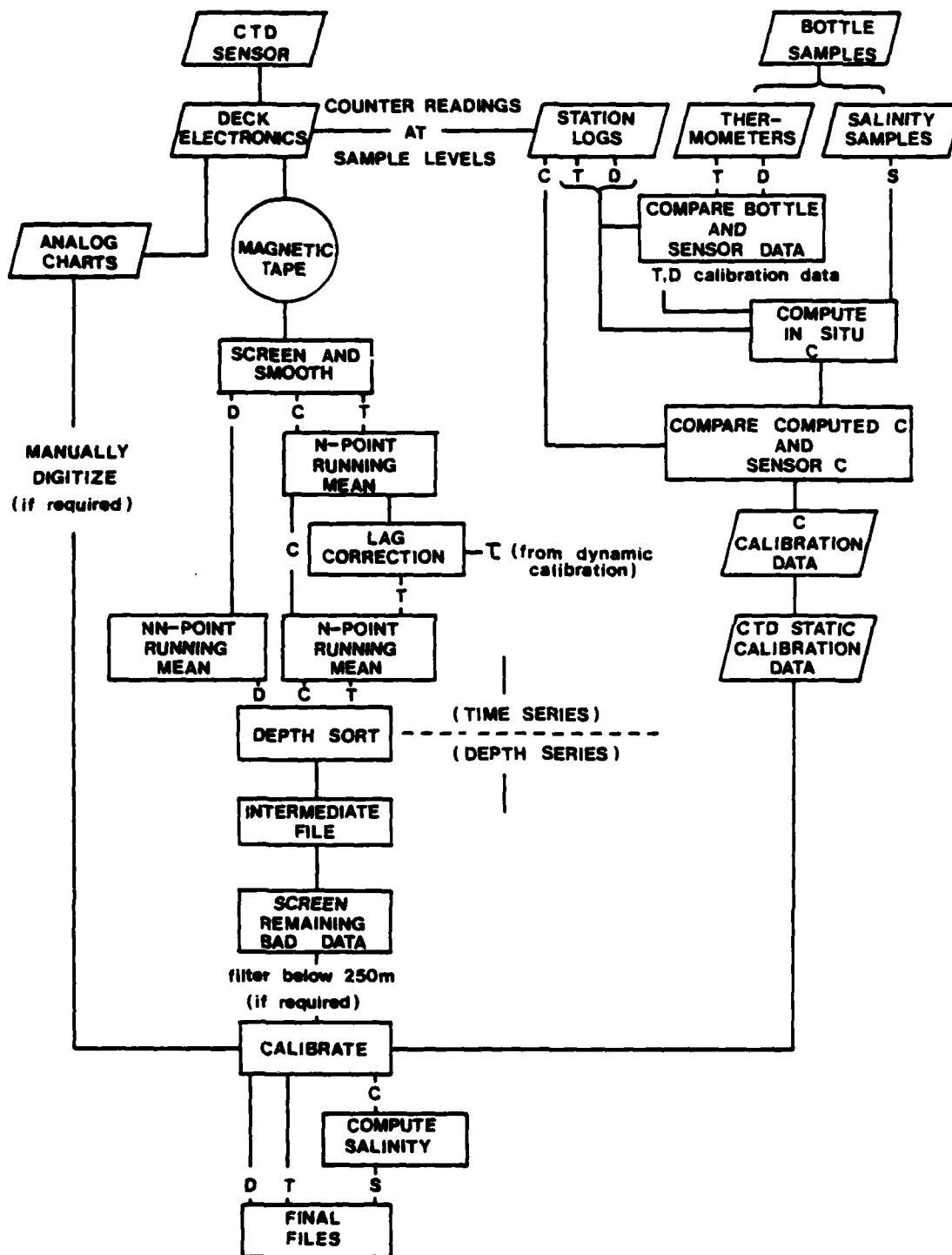


Figure 9 - CTD Calibration Flow Diagram.

Figure 9 is the flow diagram for the CTD data reduction processes. Once the CTD data set had the temperature lag correction applied and had subsequently been sorted for increasing depth, corrections to the data on the basis of bottle information were required before final calibration could be completed.

Temperature and depth calibration does not differ from that described in the STD Calibration Procedures; however, the final correction equations had to be supplied before the conductivity sensor could be calibrated.

The problem of conductivity calibration is two-fold; 1) to convert bottle data salinities obtained from the salinometer to in situ conductivities, and 2) to insure continuity between Plessey and salinometer conductivities before comparison.

To convert salinometer derived salinities to conductivities at the correct temperature and pressure observed by the sensor, the selection of a transfer equation as shown by equation 4 was necessary:

$$c = f(s, t, p(z)) \quad (4)$$

where  $c$  = conductivity  
 $s$  = precise measurement of salinity (salinometers)  
 $t$  = actual temperature of water at depth  $z$   
 $p$  = pressure at depth of observation,  $z$

All AIDJEX salinity data are ultimately based on lab salinometer results as computed by the UNESCO formulation (Cox et al, 1967). Because pressure effects and temperatures less than 10°C are not included in the International Tables, some other formulation for the conversion of in situ conductivity to salinity was required.

Walker and Chapman (1973) compared several of the more widely used conductivity-to-salinity equations used in the field of oceanography today. Unfortunately, as of the time of this publication, no standard formulation has been adopted by the world community although progress towards this has begun.

The Ribe-Howe equation with the low temperature correction by Dauphinée (Walker and Chapman, 1973), was chosen for the following reasons:

1. It agrees more closely with the UNESCO values in the range of the AIDJEX data set.
2. It claims accuracy of 0.01 ppt and extends deeper (7000 db) than others so it can be safely applied to the few deep 3000 meter stations.
3. It can be rapidly computed.
4. No effort needs to be made to compensate for the discrepancy between Ribe-Howe and the UNESCO equations. The magnitude of the errors in the range of 25-35 ppt is less than 0.001 ppt.

Bottle data and counter readings were placed in permanent files in the computer as described previously in the section STD Calibration. Final equations for the calibration of temperature and depth were calculated prior to the conductivity calibration procedure. These values were required as input parameters to the reversed Ribe-Howe equation to accurately provide the in situ conductivity given the precise values of salinity, temperature and the depth of observation.

Delta values still could not be calculated because of the different values of absolute conductivity used by the Plessey sensor and the Ribe-Howe equation. In order to transfer the Plessey conductivity of  $C(35,20,0) = 47.891$  mmho/cm to a conductivity in terms of the Ribe-Howe formulation,  $C(35,20,0) = 47.917$  mmho/cm, conductivity data produced by the Plessey CTD were multiplied by the ratio of the two values.

$$C_{\text{corr}} = C_{\text{ctd}} \times 1.0005429 \quad (5)$$

where  $C_{\text{corr}}$  = corrected conductivity  
 $C_{\text{ctd}}$  = observed conductivity of sensor

Delta values in conductivity were then calculated for all the bottle data in the CTD set. Once the calibration polynomial had been formulated for conductivity, it became a straightforward process to calculate salinity-temperature-depth data from the intermediate CTD data. The order of progression is very important and is as follows:

- a) correct temperature to produce final temperature,  $t_f$
- b) correct depth to produce final depth,  $d_f$
- c) calculate  $C_{\text{corr}}$  as in equation 5
- d) correct  $C_{\text{corr}}$  to produce final conductivity,  $c_f$
- e) compute salinity by Ribe-Howe using  $t_f$ ,  $d_f$ ,  $c_f$

Final conductivity values were not saved during the processing and are therefore not reported.

#### Optional Filtering Below 250 Meters

Approximately twenty-one percent of the total STD data required some type of additional filtering and smoothing due to above average noise in the temperature and salinity channels. This problem was confined to depths greater than 250 meters. The cause of the noise is not well understood, but is believed to be related to some vibration effect on the components of the STD with an increase in the rate of lowering. This effect has also been considered by shipboard operators of the Plessey STD system.

It is not believed to be caused by the deck instrumentation since both digital tape data, as well as analog traces indicate excessive noise levels even though they operate from essentially different circuitry. In some instances, the effect was so severe that the station data below 250 meters might well have been discarded if further filtering and smoothing had not been applied.

The decisions as to the filtering and smoothing were subjective and were based upon the comparisons of previous stations and the severity of the noise. The several options available as to the filtering used on individual stations were:

1. Only temperature-filtered within a specified depth interval.
2. Only salinity-filtered within a specified depth interval.
3. Both temperature and salinity-filtered within a specified depth interval.
4. Provide values from a sliding least squares best fit quadratic equation with 30% of overlapping in each subsequent fit.
5. Clip the original data with a preset tolerance of  $\pm .006$  ( $^{\circ}\text{C}$  or ppt).

If the station data had small discrete depth intervals in which the noise occurred, the section or sections were deleted rather than using the options to filter the entire trace. In the case where noise was extreme, the affected segment of data was replaced in its entirety with data obtained by the overlapping least squares best fit equations as described in option 4 and 5.

In the various listings in the data report, information is given as to whether a station has been filtered below the depth of 250 meters, although the type of filtering is not indicated. Better than 90% of the filtering done on the data involved salinity only with filtering as indicated by options 4 and 5.

### Subsequent Processing

Even though salinity, temperature and depth had been converted into final calibrated data, errors still existed. A combination of several checks involving the plotting of the data in various forms and the sorting of various parameters revealed errors that were previously unnoticed.

The deletion of data while the sensors were in the hydroholes and the addition of weather and position information for the individual stations was also a part of this procedure.

T-S diagrams were employed on large groups of stations to show stations which deviated from the mean. Stations that were flagged in this manner were rechecked for validity. If the data turned out to be in error and the error resulted from processing, the station was reworked from the point at which the error occurred.

Nested temperature and salinity traces were also plotted (as shown in this report) to observe stations that did not follow the mean trends of the other plotted profiles. If a station was considered questionable, the original analog chart was used as the basis for the deletion or acceptance of the profile. Deletions of segments of data were most common in this part of processing because of random spiking that was not removed during initial processing. The deletions are seen as gaps in the data and usually span less than 10 meters.

Sequential sorting of the recorded dates and times of the stations at one camp was also done. Stations that were shown to be out of order were corrected and resubmitted to the data set.

Temperature and salinity values taken while the sensor was in the hydro-hole were then removed from all data sets of the respective camps. The depths to which this was done at each camp are listed in Table 3.



TABLE 3

Sea Ice Thickness of Hydroholes at the Four Manned Camps

<u>Camp</u>	<u>Ice Thickness (cm) Below Sea Level at Hydro-hole</u>
Caribou	300
Blue Fox	470
Snowbird	340
Big Bear	250

As a final indication of the quality of the salinity and temperature data, averaged values of the bottle and reversing thermometer at the various sampling depths are shown on the profiles.

#### ACCURACY OF THE DATA

Tests were run to determine the accuracy of the DDL and manually digitized STD data. The bottle data were used as the standard against which the final salinities and temperatures were checked. For each camp, the final salinity and temperature data were subtracted from the observed bottle data at the various tripping depths. Differences were grouped into two sections - DDL data and manually digitized data. Table 4 compares the mean salinity and temperature differences and the associated standard deviations for the four manned camps for each section.

TABLE 4

Means and Standard Deviations of Salinity  
and Temperature Differences for the Four Manned Camps

<u>Camp</u>	<u>Data Type</u>	<u>Salinity</u>	<u>Temperature</u>
Caribou	DDL	$0.0 \pm 0.015$	$0.002 \pm 0.024$
	Manual	$0.005 \pm 0.027$	$0.014 \pm 0.041$
Blue Fox	DDL	$0.002 \pm 0.001$	$0.019 \pm 0.051$
	Manual	$0.020 \pm 0.025$	$0.007 \pm 0.037$
Snowbird	DDL	$0.002 \pm 0.047$	$-0.006 \pm 0.034$
	Manual	$0.006 \pm 0.034$	$-0.024 \pm 0.056$
Big Bear	DDL	$0.008 \pm 0.022$	$0.030 \pm 0.044$
	Manual	$0.013 \pm 0.050$	$0.005 \pm 0.059$

## METEOROLOGY DATA

Surface observations and digital recordings of meteorological sensors at a fixed height above the surface of the ice were maintained continually at each of the AIDJEX manned camps.

From the original data, hourly averages of surface barometric pressure, wind speed and direction at 10 meters and air temperatures at 2 and 9 meters above the surface were obtained from the AIDJEX data bank.

Data that were closest in time to each station were recorded with the station in permanent files on the computer. In the header information associated with each station in this report, values of temperature at 2 meters, surface barometric pressure and 10 meter wind speed and direction are reported. Blanks imply no available data for that particular parameter.

## POSITION ESTIMATES AND ASSOCIATED ERRORS

Filtered and smoothed estimates for position and velocity through time were recently updated for all of the AIDJEX 1975-76 manned camps (Thorndike and Manley, 1980), to provide better resolution for inertial oscillations of the ice motion. The initial Satellite Navigation report (Thorndike and Cheung, 1977) indicated signal reduction in the data at the inertial period due to filtering of approximately 50% and was, therefore, not acceptable for the reduction of certain parts of the oceanographic data set.

Position estimates were not regularly spaced in time nor were they at the times when the STD or PCM stations were started. Therefore, it was necessary that some software routine be constructed in order to give reliable estimates of the position and ice velocity at the times of the stations in question.

Normally, 25-30 position fixes were recorded per day at each of the four camps. The maximum number of fixes per day was close to sixty, and the minimum was zero for a period of approximately five days. With these wide variations in the spacing of the data, it became important to estimate the standard error associated with the calculated positions and velocities. These error estimates would then later become useful in the determination of the station's relative importance for a particular application. Typical examples would be the rejection of an STD station (position error of 1000 m) intended to be used in a geostrophic calculation where the inter-station spacing is on the order of 2 kilometers, or relative velocity PCM stations being rejected for absolute data processing when the ice velocity error was exceedingly high. Regardless of the intended application, error estimates for both positions and velocity are an integral part of the data set.

There are several methods to determine the position of a given camp at a particular time, given precise estimates of the position and velocity before and after the time in question. The methods range from a simple approach of choosing the position fix closest in time to the station in question, to more involved interpolation schemes.

Due to the presence of small to intermediate scale structures observed in the AIDJEX oceanographic data set, precise position and ice velocity estimates were required to resolve them as best as possible. By defining a smooth and continuous time dependent function -  $X(t)$  - of a positional parameter such as latitude or longitude, four boundary conditions were initially provided by the navigation data set. These known conditions were  $X(t_1)$ ,  $X(t_2)$ ,  $X'(t_1)$  and  $X'(t_2)$ ;  $t_1$  and  $t_2$  indicate different observation times, and  $X'$  indicates the first derivative (velocity). In order for the function  $X(t)$  to be uniquely defined,  $X(t)$  by definition must be cubic.

Once the time of the station was provided, cubic equations for both latitude and longitude were defined using the navigations points of latitude, longitude and north and east ice velocities directly before and after the station time in question. Position and ice velocity were then obtained by substituting the time of the station into the cubic equations and their first derivatives with north and east ice velocities being defined as the first time derivative of latitude and longitude respectively.

Estimates (95% confidence limit) of the errors associated with latitude and longitude are also provided to the user. A more detailed explanation of the errors associated with position, as well as ice velocity is given in any of the AIDJEX profiling current meter data reports (Manley et al, 1980 a, b, c, d).

## OBSERVED FEATURES

The stable ice platform permits the STD to be dropped and raised smoothly without the pumping action usually produced on casts from a rolling ship. Delineation of small scale structures is limited almost entirely by instrument characteristics alone. The AIDJEX data show considerable detail in such interesting oceanographic features as the upper mixed-layer, anomalies of temperature and salinity associated with baroclinic eddies and step structure. Since the STD profiles were continued over an entire year, the seasonal variations in these and other features were recorded. Also, the 100 km array of four (later three) ice stations permits description of the lateral variation of oceanographic features on this scale. The array scale was originally chosen to give information on mesoscale atmospheric effects. It is too large for detailed study of baroclinic eddies and too small for the general circulation. However, the scale does confirm the extent of variations in the mixed layer and in step structure. Baroclinic eddies are only 10 to 20 km in diameter and are observed at only one ice station at a time but some idea of their numbers can be obtained by the frequency of encounter with them.

### Mixed Layer

The behavior of the upper mixed layer was one of the principal objectives to the AIDJEX oceanographic program. This layer of nearly homogeneous water extends, during the winter, from just below the ice to depths of 25 to 60 m. During the summer it disappears as the upper layers become strongly stratified. The aim of the AIDJEX field program was to measure as accurately as possible the forces acting on drifting ice including the frictional drag of the ocean. The degree of homogeneity or stratification of the upper layers has an important effect on water drag. A well-mixed upper layer results in more drag than a stratified layer.

The mixed layer which appears so strikingly in the winter and spring arctic profiles of temperature and salinity (fig. 7) is attributed to brine convection. Heavy brine is released during freezing to sink down to or below its level of equivalent density, overturning and mixing the surface layers as it descends. Most earlier arctic oceanographic stations were taken in winter and spring months. The mixed layer has been generally recognizable in bottle casts although details of its structure and evolution were not available. In the 1972 experiment, the mixed layer was about 35 m deep with a sharp break at that level to a steep gradient in temperature and salinity. The continuous record of a Guildline CTD showed the upper 15 m to be often unstable within the resolution of the instruments. The region from 15 to 35 m, while still having the appearance of a mixed layer, was neutral or slightly stable (Smith, 1974).

Results from the 1975-76 experiment with Plessey STD (CTDs) show that the mixed layer often has slight steps and that the details of the structure are

not coherent over the 100 km array. The mixed layer in the spring of 1975 was about 50 m deep. The small steps in the mixed layer may be due to brine convection beneath a refreezing lead.

Fluid dynamical arguments suggest that such steps are limited to a horizontal extent of about 2 kilometers. Their horizontal scale is limited to approximately the Rossby radius of deformation which is small for such small density differences as these steps in the mixed layer (Stommel, 1969).

There are two principle stirring mechanisms by which a mixed layer may be formed; gravitational convection due to brine extrusion during freezing is usually considered most important, mechanical stirring by ice drift must also play some part. Previous studies have not conclusively shown the relative importance of the two regimes (Solomon, 1973). The two mechanisms should operate on clearly separated horizontal scales with mechanical stirring by drift occurring over the 1000 km scale of the wind field and brine convection occurring over the 1 to 10 km scale of leads.

Few summertime observations were available on the upper layers before 1975. The AIDJEX records show that a continuous steep gradient in temperature and salinity often exists beneath the ice during summer when freshwater runoff from melting ice and snow stratifies the upper layers (figs. 10-13). Since the fresh water is lighter than sea water, it remains on top, stratifying the surface layer. At times the stratification may be less continuous (fig. 13). Figures 12 and 13 were taken on the same day, but at stations about 100 km apart and show the extent of horizontal variability. The amount of snow available for runoff and the number of cracks available for drainage cause this variability.

Figure 14 shows the development of the mixed layer through time. In the late summer, the mixed layer is absent (14a), but begins to develop and deepen



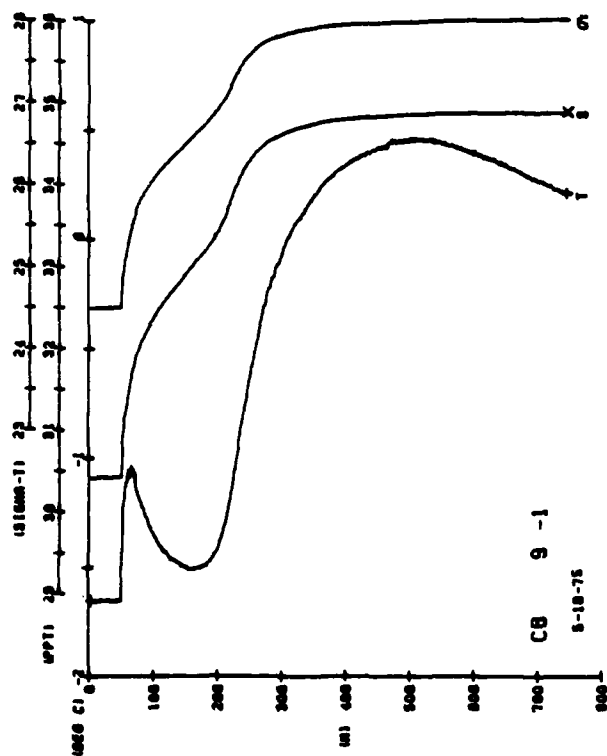


Figure 10 - STD- $\sigma_t$  profile of Caribou Station 9. Figure 11 - STD- $\sigma_t$  profile of Caribou Station 111.

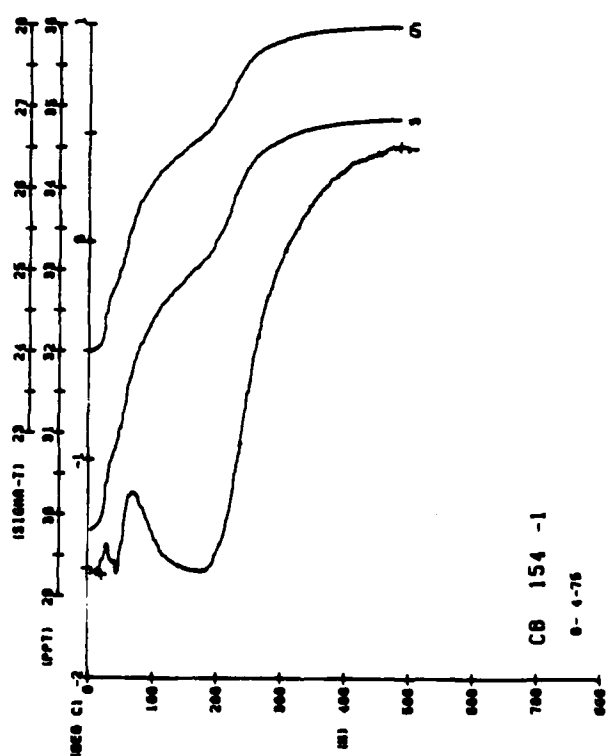
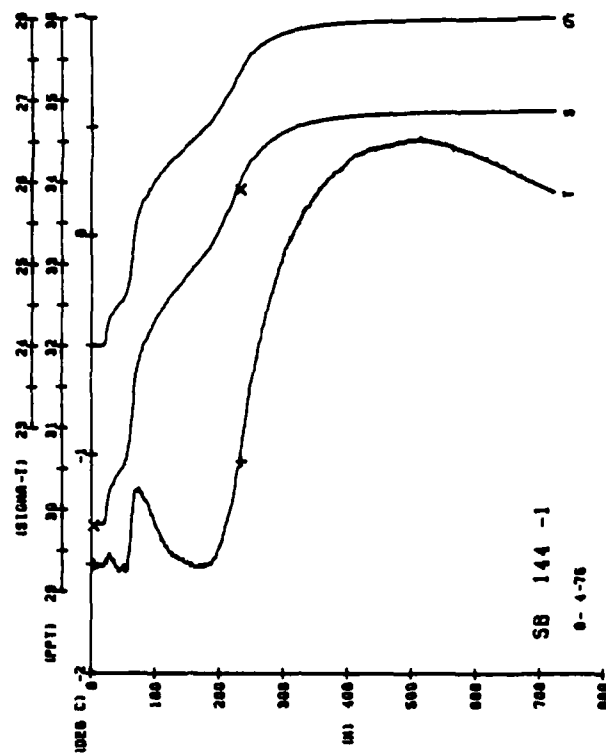
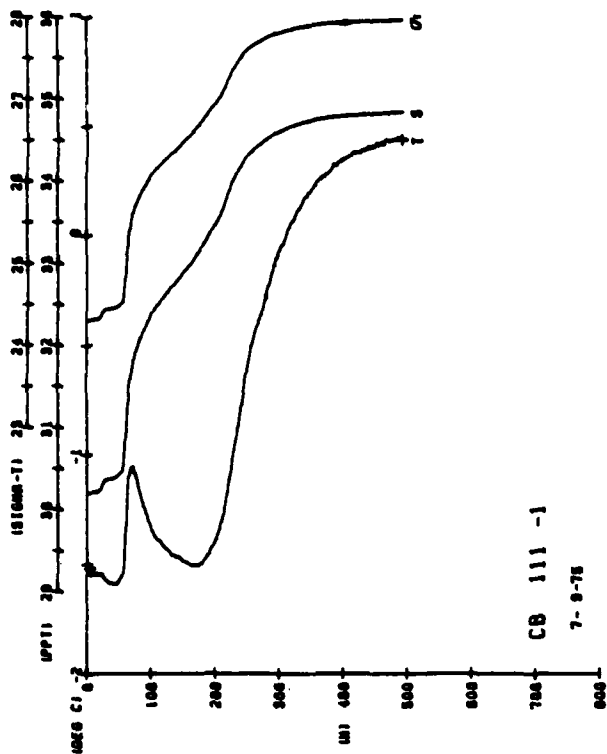


Figure 12 - STD- $\sigma_t$  profile of Caribou Station 154. Figure 13 - STD- $\sigma_t$  profile of Snowbird Station 144.



when the first freezing begins and is about 15 meters deep by September (14b). It continues to deepen slowly, reaching approximately 25 meters in December (14c), and attains a maximum depth of 40-50 meters in late spring (14d). Unfortunately, the experiment did not continue far into the spring of the following year, so an early station from camp Blue Fox is used to show this maximum (14d).

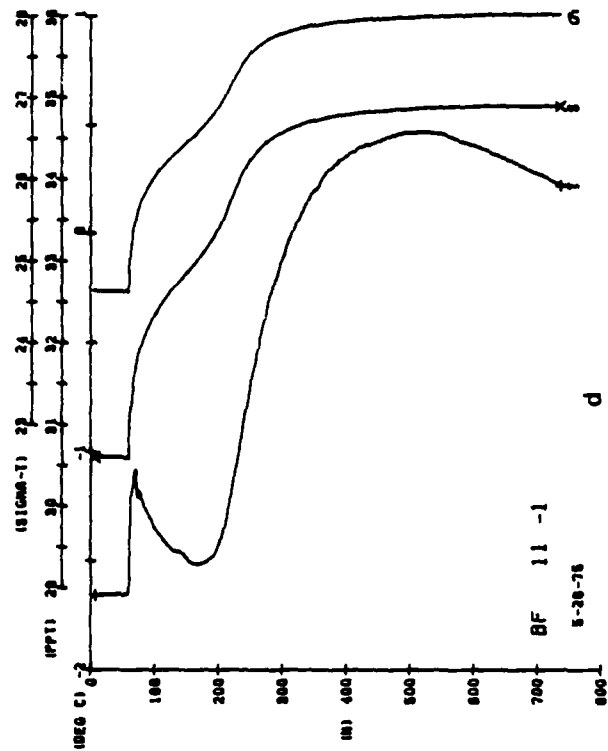
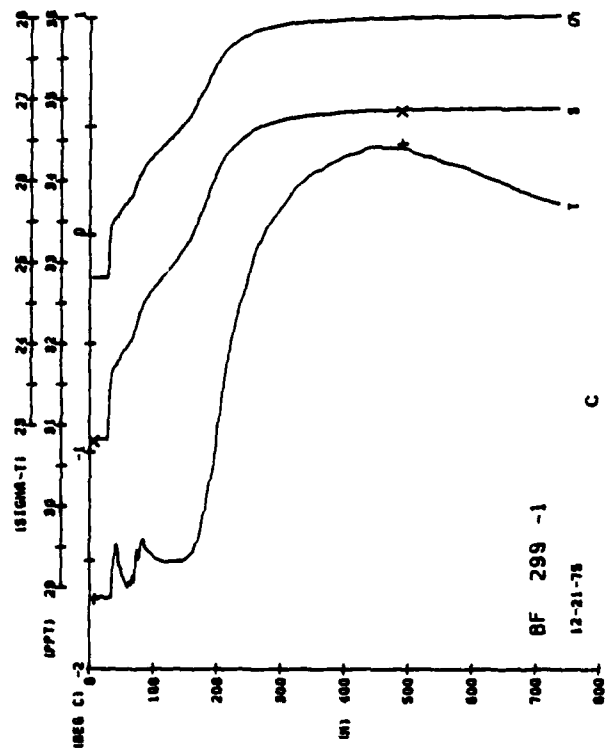
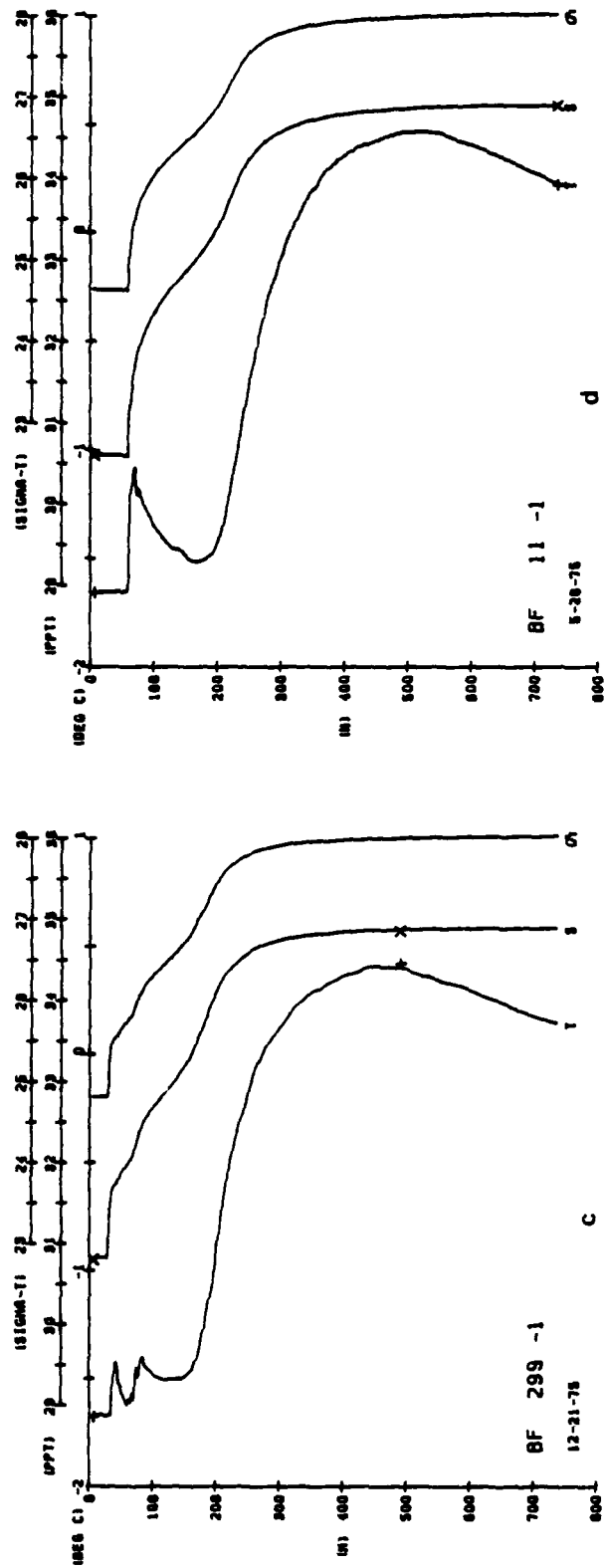
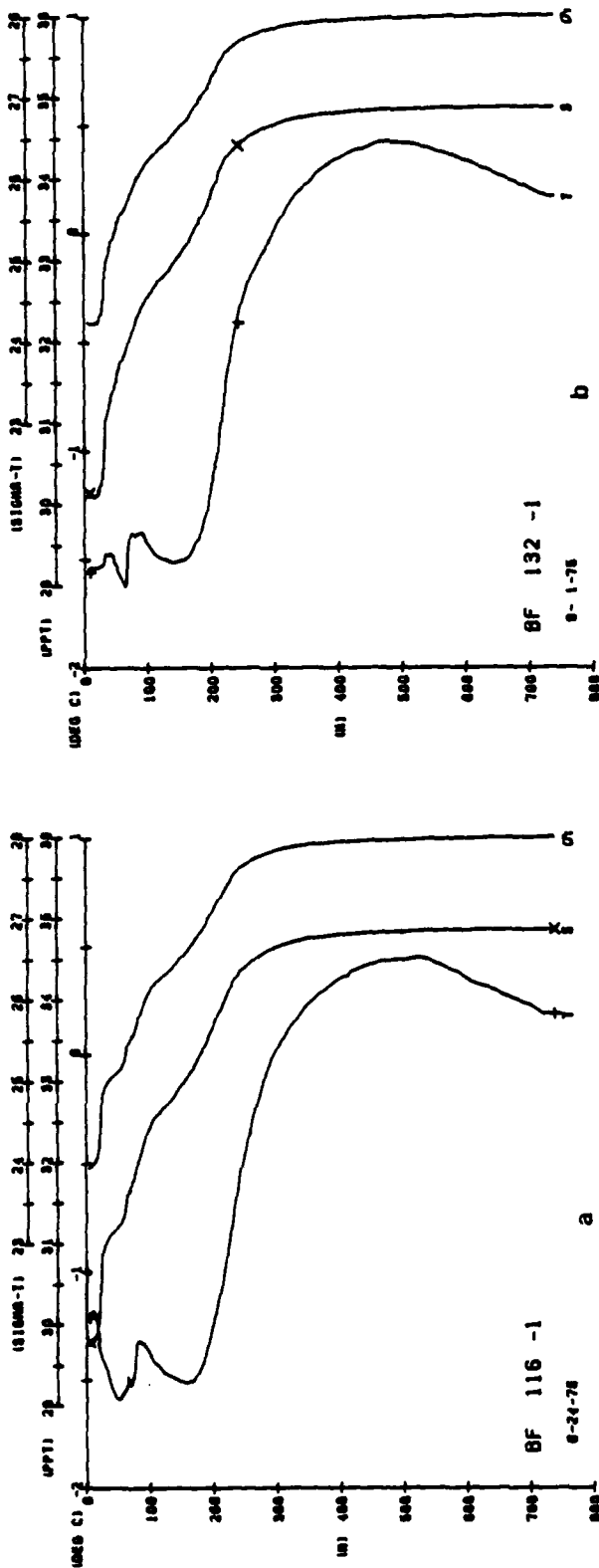


Figure 14 - Development of mixed layer as observed at Camp Blue Fox from late summer to late spring.

### Mesoscale Eddies

One of the unexpected oceanographic results of the 1972 AIDJEX program was the detection of swift subsurface currents localized in the pycnocline. These currents coincided with the region of steepest density gradient between 50 and 300 m. Maximum speeds, found at a depth of about 150 m, reached 60 cm/s. This speed far exceeded the mean current of 1.8 cm/s (Hunkins, 1974 b; Newton, 1973; Newton et al., 1974; Dixit, 1978).

Although there had been observations of transient undercurrents by P.P. Shirshov as early as 1937 (Belyakov, 1972), the details and horizontal extent of the features were not known. In 1972, these transient currents were shown to occur as nearly circular eddies with diameters of 10 to 20 km. Both cyclonic and anticyclonic circulation were observed. The eddies are strongly baroclinic with signatures in both the velocity and density fields. The force balance is nearly geostrophic although centrifugal force is also of some significance since the eddies have such a small radius.

In the main experiment of 1975-76, eddies were detected at all four camps. Examples of current velocity profiles through eddies at the camps are shown in figs. 15-18. They differ from the barotropic wind-driven motions by often occurring when there is little ice motion and by their strong vertical shear.

Previous measurements of temperature and salinity through the eddies have been with discrete sampling by water bottles and reversing thermometers. These are the first eddy studies with the increased detail given by STD profiles. The eddies appear to move more slowly than drifting ice so that a cross-section through one may be obtained as the ice station drifts over it. This happened as the Snowbird station drifted across an eddy. Four successive

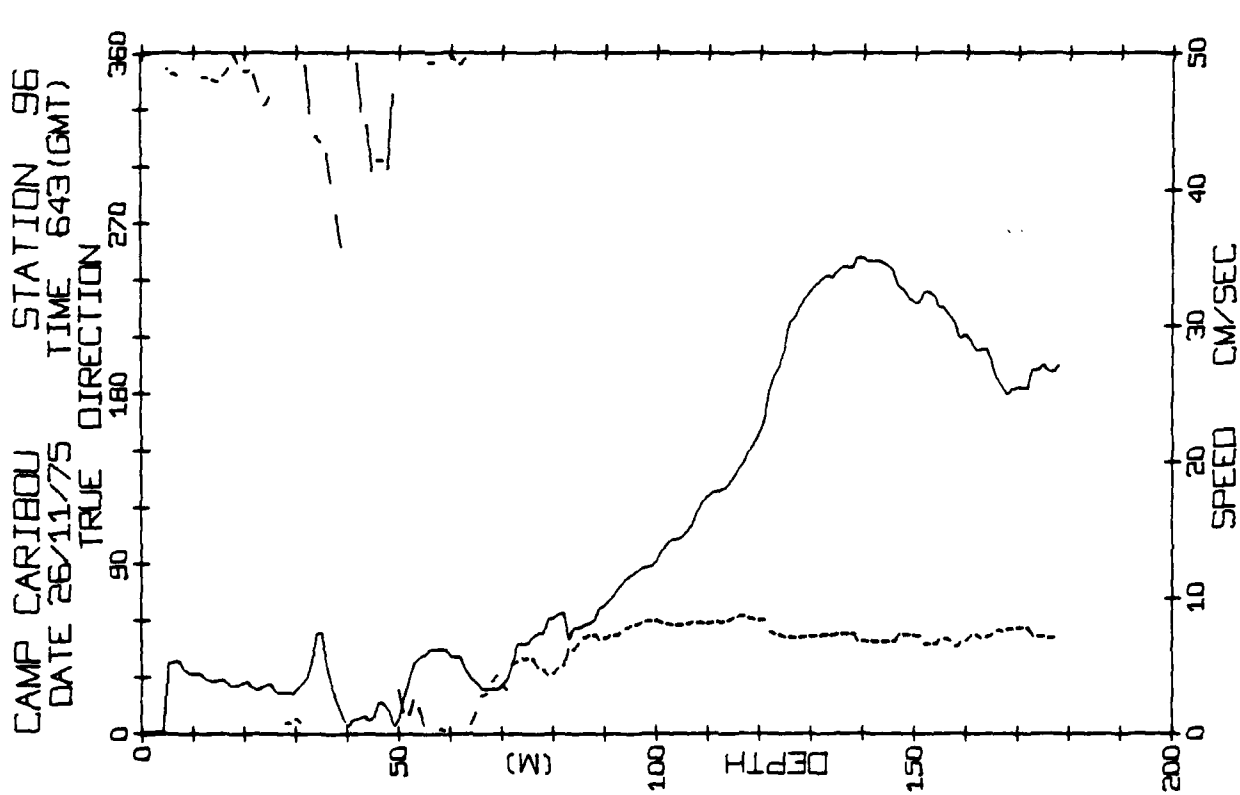


Figure 15 - Vertical velocity profile through an eddy observed at Camp Caribou; dashed line is true direction, solid line is absolute speed.

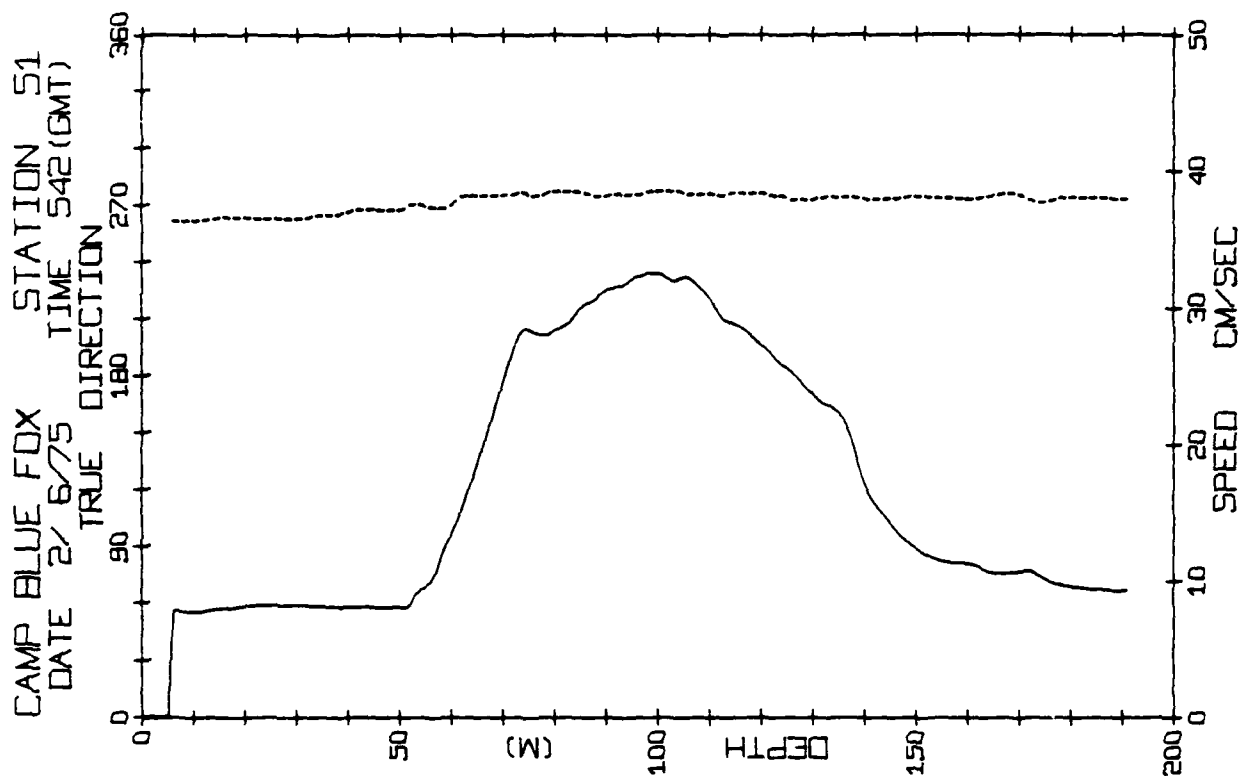


Figure 16 - Vertical velocity profile through an eddy observed at Camp Blue Fox; dashed line is true direction, solid line is absolute speed.

CAMP SNOWBIRD STATION 49  
DATE 30/ 5/75 TIME 2043(GMT)  
TRUE DIRECTION

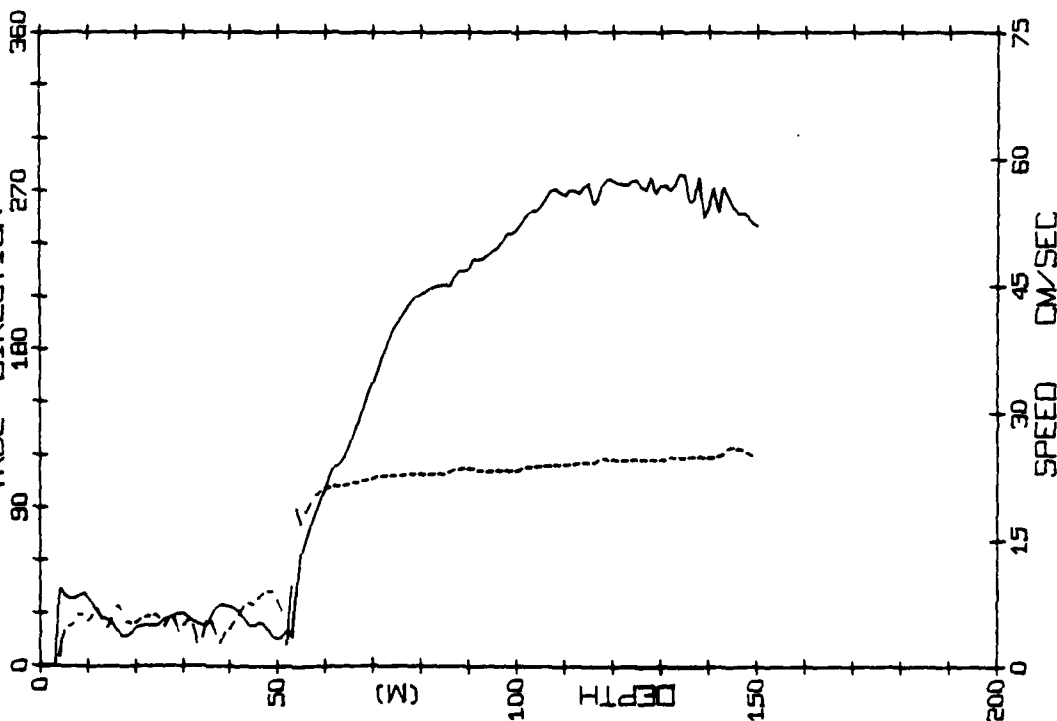


Figure 17 - Vertical velocity profile through an eddy observed at Camp Snowbird; dashed line is true direction, solid line is absolute speed.

CAMP BIG BEAR STATION 154  
DATE 14/ 6/75 TIME 1944(GMT)  
TRUE DIRECTION

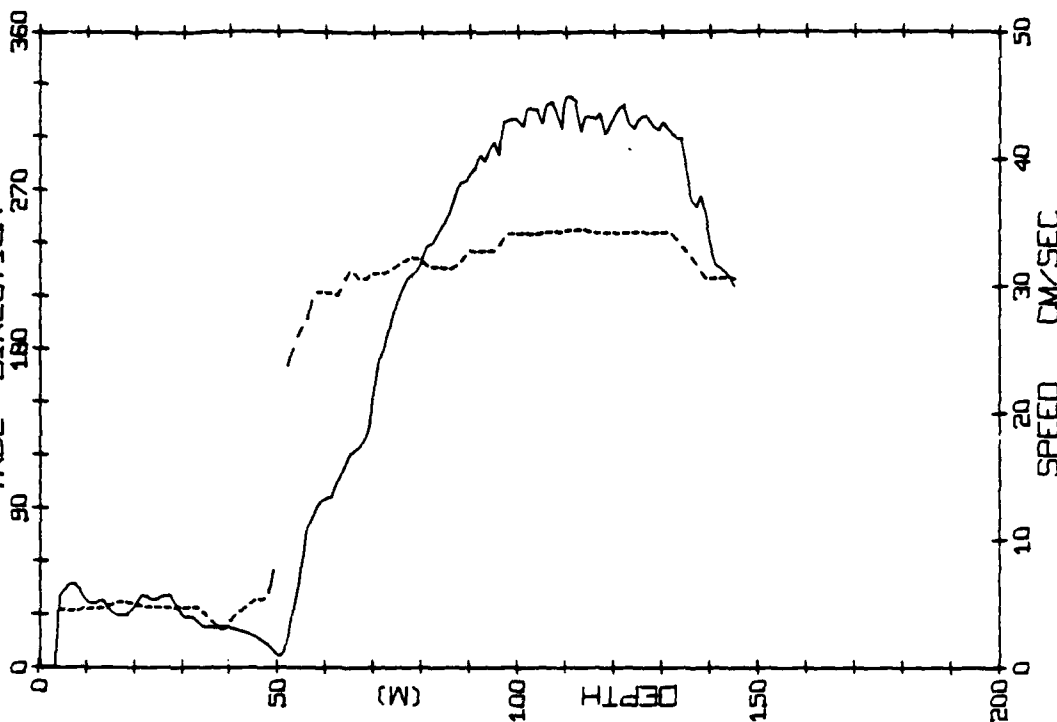


Figure 18 - Vertical velocity profile through an eddy observed at Camp Big Bear; dashed line is true direction, solid line is absolute speed.

profiles on four succeeding days show changes from normal conditions to eddy conditions and back to normal (fig. 19).

In the middle two profiles there is a marked change from the normal temperature and salinity between depths of 100 and 200m, the depth interval of maximum current velocity. Figure 13 shows the velocity profile corresponding to Snowbird station 30 in figure 19.

Measurements with increased time and space resolution have resulted in detection of baroclinic eddies in the Atlantic Ocean where they became the object of detailed study during the United States MODE experiments and Soviet POLYGON experiments. The Arctic eddies differ from the Atlantic ones in two ways. The horizontal and vertical space scales of the Arctic eddies are much smaller, 20 km and 200 m respectively, than those in the Atlantic, 100 km and 4000 m. The depth of maximum velocity within the eddies also differs between the two oceans. Whereas in the Atlantic it is close to the surface, in the Arctic the maximum is definitely below the surface at 80 to 150 m. This appears related to the presence of the ice cover against which the eddy is frictionally dissipated. Thus, the Arctic eddies enlarge the parameter range under which eddies are known to exist.

Prior to the printing of this report, a more detailed study of mesoscale eddies in the Arctic Ocean was recently completed (Manley, 1981). This work contains discussion on their characteristics, origin, and role in the energy, heat and salt balance of the western Arctic Ocean.

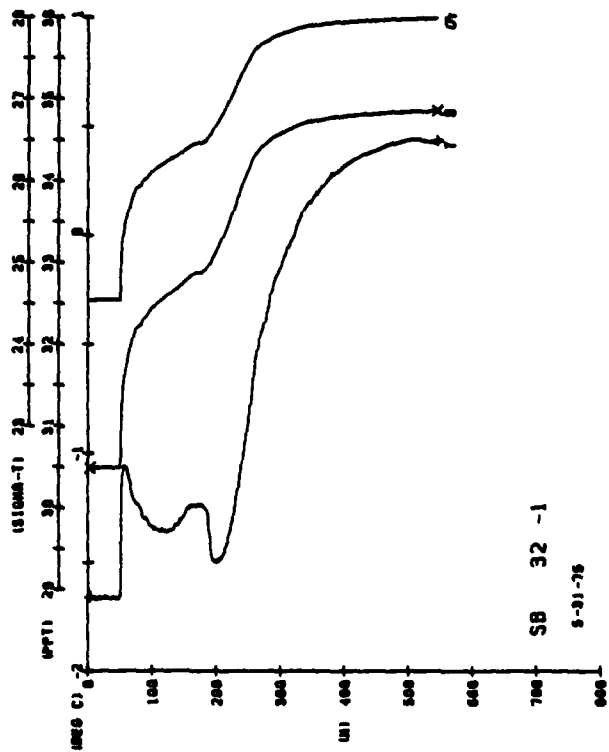
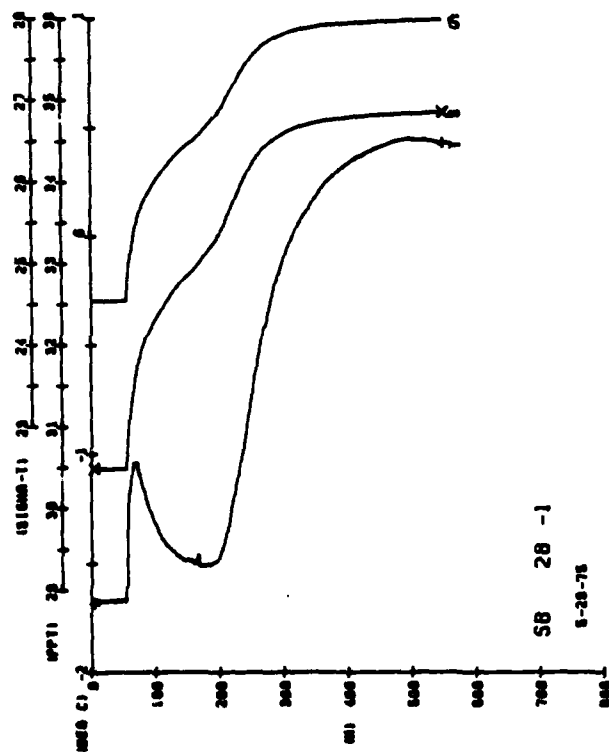
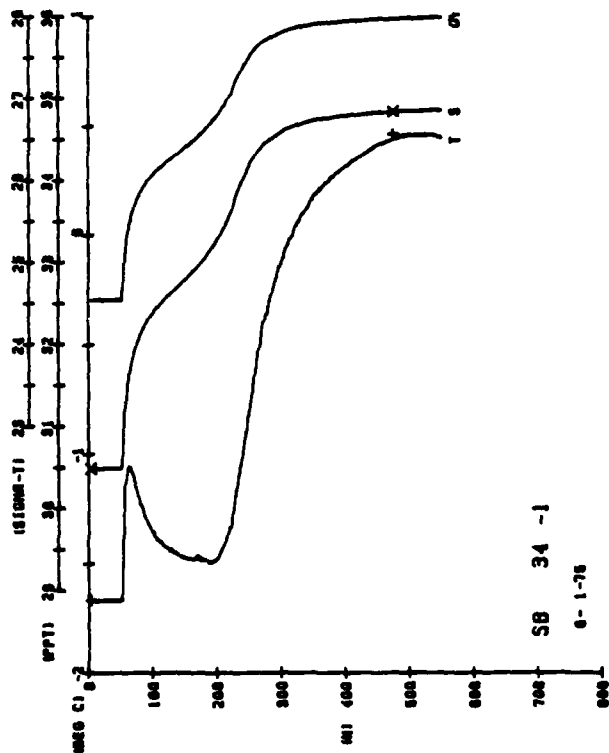
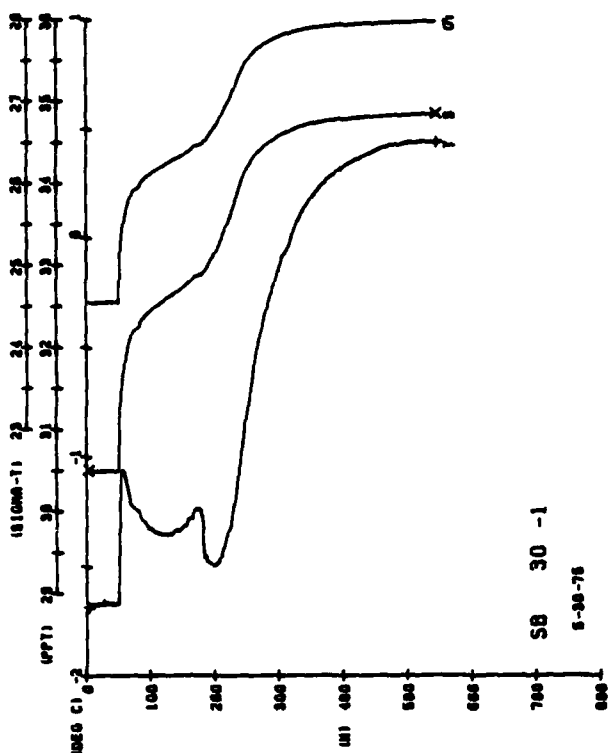


Figure 19 - T-S- $\sigma_t$  observations through an eddy at Camp Snowbird.



### Step Structure

Step structure is a third oceanographic feature which is shown in these STD (CTD) profiles. Arctic Ocean step structure has been reported previously by Neshyba et al., (1971), and consists of homogeneous layers about 3 m thick between depths of 200 to 500 m. The profiles of temperature and salinity taken during the main AIDJEX experiment also show similar features. An example of this step structure is shown in an expanded plot of temperature and salinity taken from STD station number 1 and Camp Snowbird (fig. 20). It was unexpected that such small features should be detected with the model 9040 STD, as it was not designed for microprofiling.

The abundant AIDJEX data should extend our geographical and temporal information on these step structures. It should be noted, however, that only data processed from magnetic tape (processing code = 1; see Table 5) are of a high enough quality to study the features.

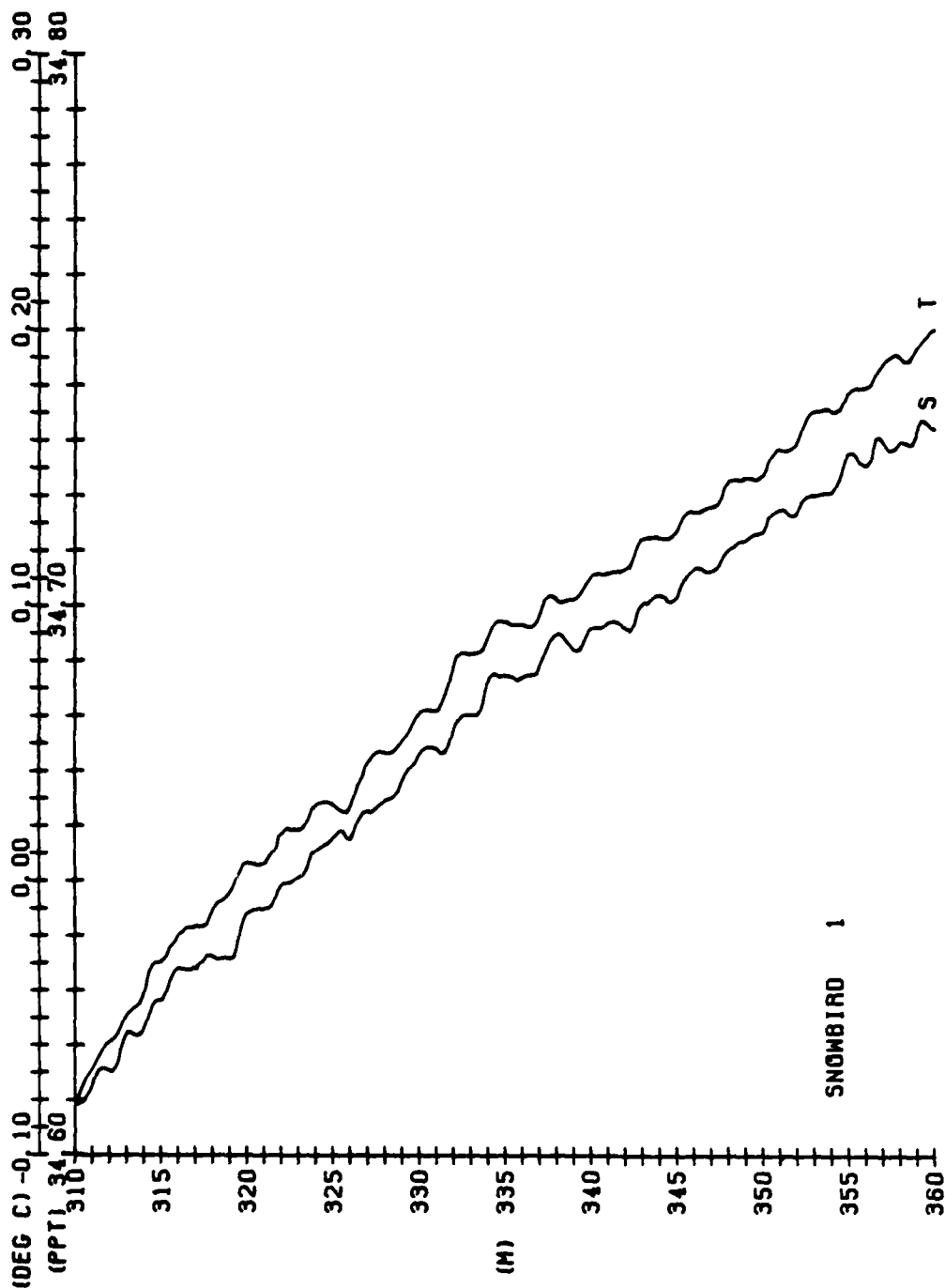


Figure 20 - Step structure through an eddy at Camp Snowbird, Station 1, May 16, 1975.

### Observations of Supercooled Water

On numerous occasions during the AIDJEX program, water temperatures in the surface layers were below the freezing point for their salinity, especially during the months of winter and spring. The supercooling often exceeded  $0.1^{\circ}\text{C}$ . There have been many reports of supercooled waters in the arctic and antarctic oceanographic literature. These observations have been discussed by Doronin and Kheisin (1975) and by Lewis and Lake (1971). The reports of supercooling in polar waters seem to be accepted by the first authors while Lewis and Lake conclude on the basis of experiments and a survey of the literature that supercooling, if it exists at all, is very transitory. They conclude that the presence of ice crystals within the water leads to erroneously low salinity values upon analysis at room temperature and consequent freezing point calculations which are erroneously high.

In the AIDJEX data, the amount of supercooling, which can amount to  $0.1^{\circ}\text{C}$  or better, is too great to attribute to experimental error. The explanation of Lewis and Lake seems more likely to explain the anomalously cold water although no direct experiments were done to confirm the presence of ice crystals. Although the AIDJEX measurements were made by in situ temperature and conductivity sensors, the measurements were calibrated against bottle samples which were raised to the surface and analyzed at room temperature. Thus it is possible that melted ice crystals may have diluted the sample and these observations cannot be taken as serious evidence of supercooling in arctic surface waters.

#### ACKNOWLEDGMENTS

The following persons operated the STD program at the AIDJEX camps:  
Jay Ardai, Bharat Dixit, Allan Gill, Brian Hill, Andreas Nocolades,  
Paul Peltola, Jan Szelag and Roy Wilkens.

## APPENDIX 1

### CONVERSION TABLE FOR AIDJEX DAYS TO CALENDAR DAYS

For the main experiment, AIDJEX adopted a convention of numbering days consecutively, beginning with day 1 = 01 January, 1975 and ending with day 500 = 14 May, 1976.

In the conversion table, the first column is the AIDJEX day, the second is the corresponding day of 1975 or 1976 and the third entry is the calendar date.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104

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### STATION INFORMATION

In this section is a brief listing of all the stations at the indicated camp along with other pertinent information. A brief list of the terms and their meanings are shown below:

CAMP	Name of manned camp
STAT	PCM station
MODE	1 implies downtrace 2 implies uptrace
DY	Day
MON	Month
YR	Year
TIME	GMT time of station
CODE	Processing code, see table 8
AJXDAY	AIDJEX day (decimal) of station, see Appendix 3
D. MIN	Minimum depth (meters) of station
D. MAX	Maximum depth (meters) obtained at station
LATITUDE	Latitude of station in decimal degrees
LONGITUDE	Longitude of station in decimal degrees (- indicates West longitude)
LT. ERR	Error of latitude position in meters
LG. ERR	Error of longitude position in meters















#### OUTPUT FORMAT OF FINAL DATA

This report consists entirely of salinity and temperature data taken at the AIDJEX manned camp Caribou. A Plessey 9040 STD, which provided a majority of the data, was later replaced by a CTD of the same manufacturer. Casts were normally taken to a depth of 750 meters with some extending to 3000 meters.

Station information is provided in three different formats consisting of 1) numerical listings, 2) profiles of temperature, salinity and sigma-t ( $T-S-\sigma_t$ ) with depth, and 3) monthly time series of nested temperature and salinity profiles. In general, two profiles of  $T-S-\sigma_t$  are graphically shown on one page of the data report. On the facing page, the corresponding numerical listings of the stations are shown.

The numerical data consists of other parameters relative to the station and in some cases are abbreviated to save space. A list of the abbreviated terms and their meanings can be found in Table 5. The main body of the numerical listing consists of values of temperature, potential temperature, salinity, sigma-t ( $\sigma_t$ ), specific volume anomaly, dynamic height and sound velocity against various interpolated levels of depth. Since upper surface layer data are omitted from the data set at all camps (the sensor being in the hydrohole), surface readings of temperature and salinity are duplicated from the first data seen in the cast. The first and last data of the station are shown as one of the first values below the depth of 0.0 meters and the last values of the listing respectively.

Some station listings will show nothing for dynamic height. This implies that either the segment of missing data in the profile was too large to interpolate over, or only temperature or salinity data was available and it was impossible to calculate some parameters.

Average values of the bottle data at a particular depth level are also listed at the bottom of the data listing.

Corresponding profiles of temperature, salinity and sigma-t for the station listing are shown on the facing page.

The label at the end of each trace (T-S- $\sigma_t$ ) indicates the parameter of temperature, salinity and sigma-t respectively. Scales at the upper part of the diagram are labeled to correspond to the parameters and are also shifted with respect to one another to provide the maximum amount of non-interference of traces. Depth is in meters. Station identification and date are in the lower left hand corner in the following format:

CP      STN-MOD

MONTH - DAY - YEAR

where

CP is the camp identifier

CB = Caribou

BF = Blue Fox

SB = Snowbird

BB = Big Bear

STN is the station number

MOD is the mode

1 = downtrace

2 = uptrace

Salinity values obtained from the bottle data are plotted on the traces as a "X". Temperature values obtained from the reversing thermometers are indicated on the trace as a "+".

Where station depth exceeds 800 meters, the entire station listing as well as the profile will each take up one full page. The listing from 800 meters on down will occupy the second half of the listing page while the corresponding plot on the facing page will show the entire profile to a fixed limit of 3000 meters. Deep stations are designed in this output format so as not to be split up into two pages. As a result, there may be a few cases where only one shallow station is listed or plotted on one page.

A third type of output format is a series of temperature or salinity profiles to a maximum depth of 750 m nested in one month blocks. These are found in "Results - Section 1". Station numbers at the end of the trace are indicated. All other labeling is self-explanatory.

TABLE 5

Definitions and Meanings of Abbreviated Terms in the Station Listings

Big Bear      First main camp

Caribou      Satellite camp later to become main camp

Blue Fox      Satellite camp

Snowbird      Satellite camp

Station xxx (y)      Station number (xxx) and mode of trace (y) used where:

STD              Station taken with STD y = 1 indicates downtrace

CTD              Station taken with CTD y = 2 indicates uptrace

GMT              Times shown are Greenwich mean time

CODE = I      Processing Code where if I =

A) 1 + 5 profile contains both temperature and salinity data.

- 1) data from magnetic tape
- 2) data from manual digitization of analog charts
- 3) subsequent filtering below 250 m in salinity only
- 4) subsequent filtering below 250 m in temperature only
- 5) subsequent filtering below 250 m in both temperature and salinity

B) 11 + 13, profile is in salinity only

- 11) data from magnetic tape
- 12) data from manual digitization of analog charts
- 13) filtered below 250 meters

C) 21 + 23, profile in temperature only

- 21) data from magnetic tape
- 22) data from manual digitization of analog charts
- 23) filtered below 250 meters

LAT Latitude in decimal degrees N (North)

LONG Longitude in decimal degrees, W (West)

TABLE 5 (cont'd.)

LTER	Estimate of positional error for latitude in meters
LGER	Estimate of positional error for longitude in meters
AIR TEMP	Air temperature in degrees C at 2 meters above surface of ice
BAROM	Barometric pressure in millibars, taken at surface
WIND	Wind direction in degrees true north, taken at 10 meters above surface of ice
SPEED	Wind speed in meters/sec., taken at 10 meters above surface of ice

LISTING PARAMETERS

DEPTH	Depth in meters
TEMP	Temperature in degrees C
PTEMP	Potential temperature in degree C
SALIN	Salinity in parts per thousand
SIG T	Sigma-t density where: density ( $\rho$ ) = $1.0 + ((\text{Sig T}) * 1000.0)$
SPVOL	Specific volume anomaly ( $\times 10^{-5} \text{cm}^3/\text{gm}$ )
DYNHT	Dynamic height (dynamic meters)
SOUND	Sound velocity in meters/sec., calculated from Matthews equation

BOTTLE DATA LISTING

DEPTH	Depth in meters at which bottle was tripped
TEMP	Average temperature of reversing thermometers in degrees C
SAL	Determined salinity of water sample taken at depth indicated, in ppt.

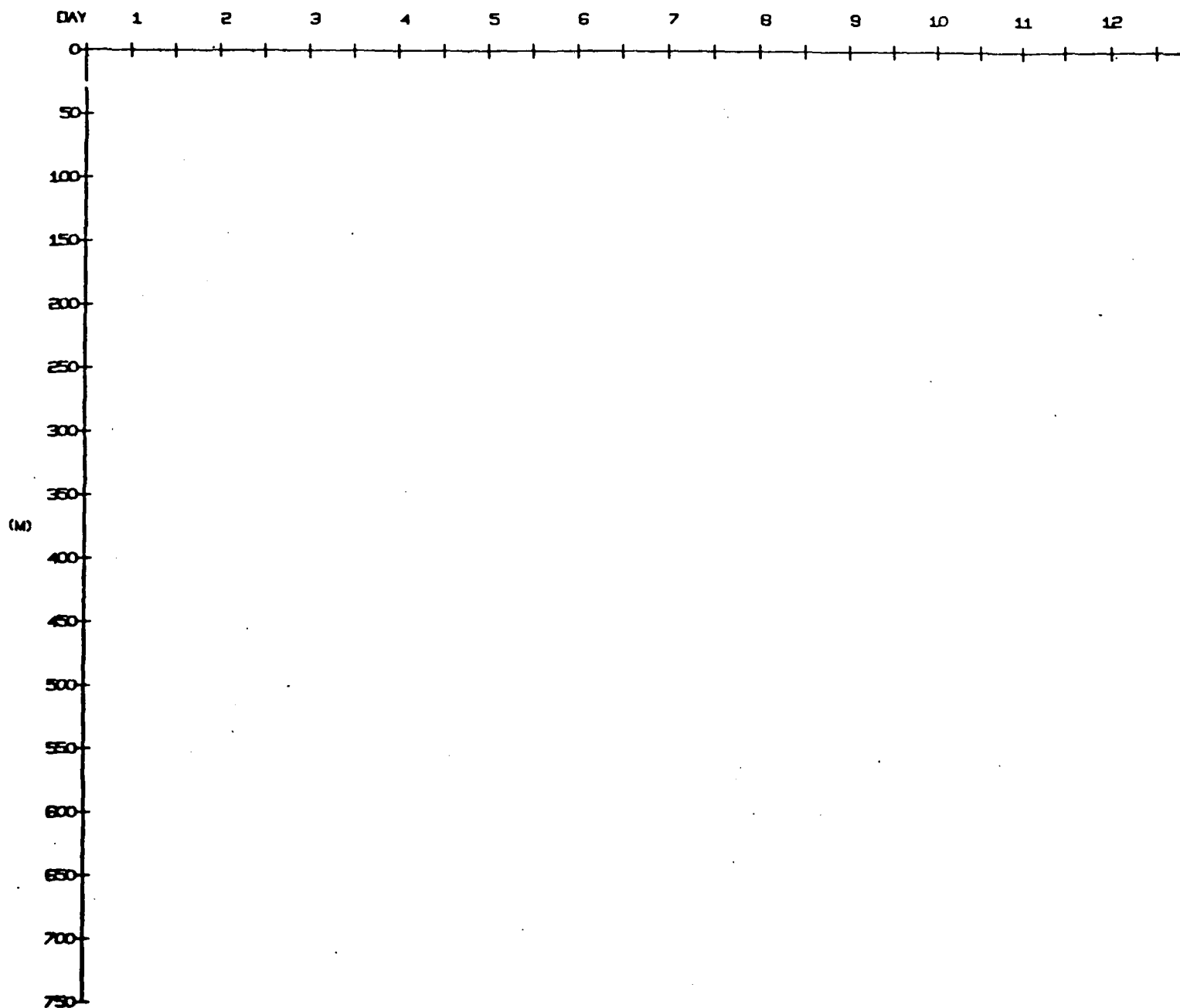
## RESULTS

### Section 1 (Nested Vertical Profiles)

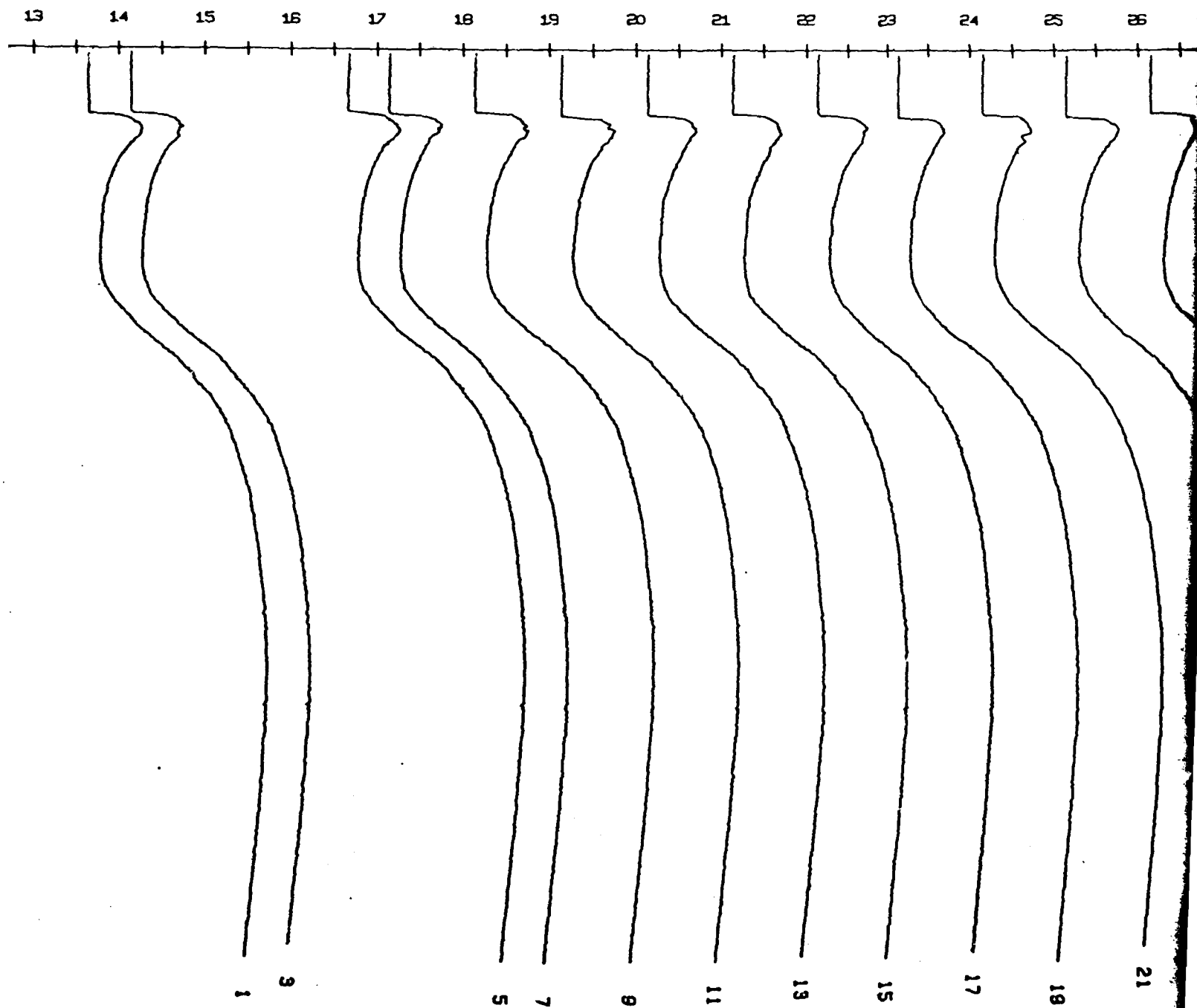
This section contains the plots of temperature and salinity to a depth of 750 meters nested into a monthly time series.

TEN

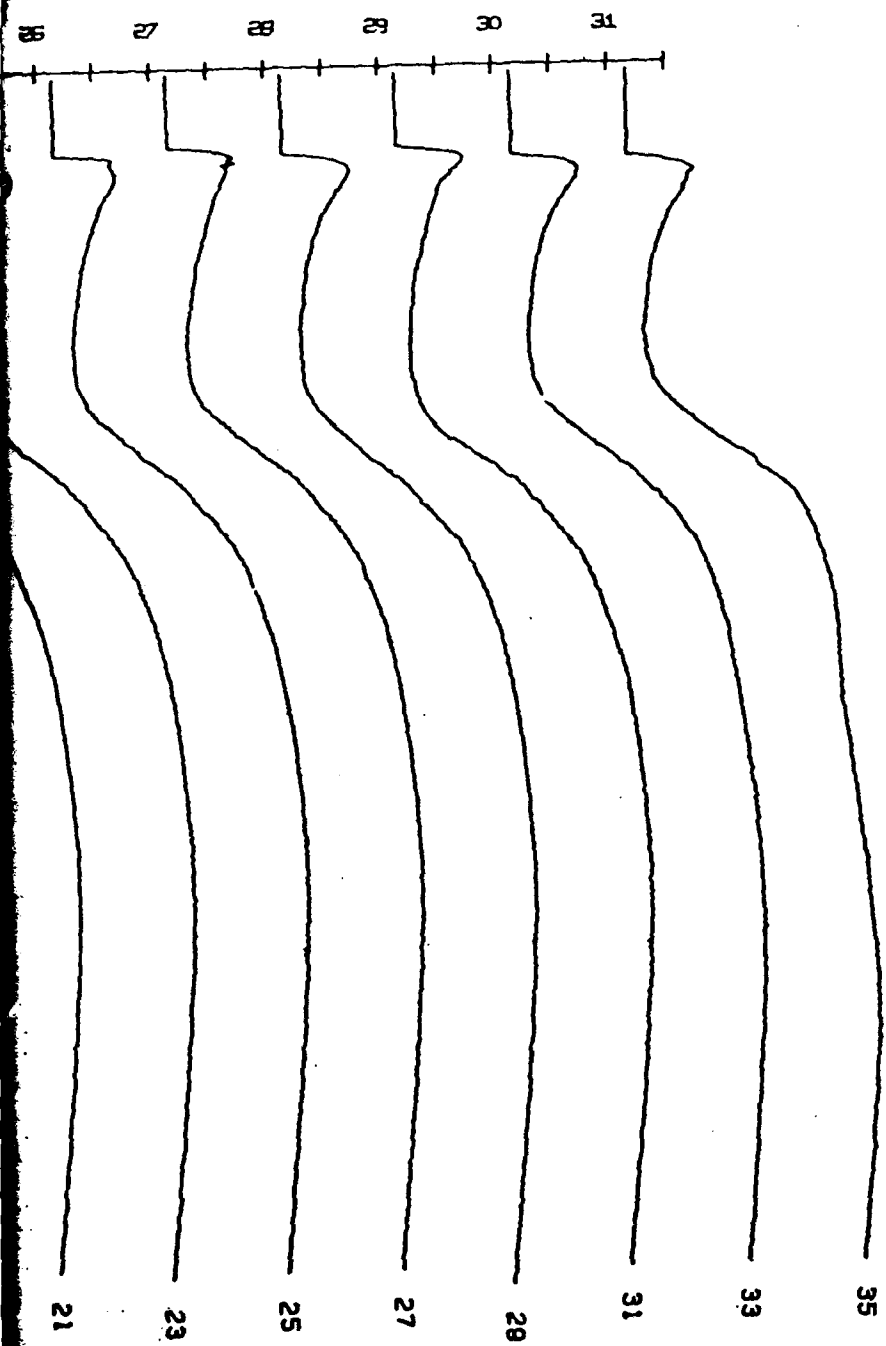
- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY



TEMPERATURE PROFILES AT CAMP CARIBOU  
MAY 1, 1975 TO MAY 31, 1975

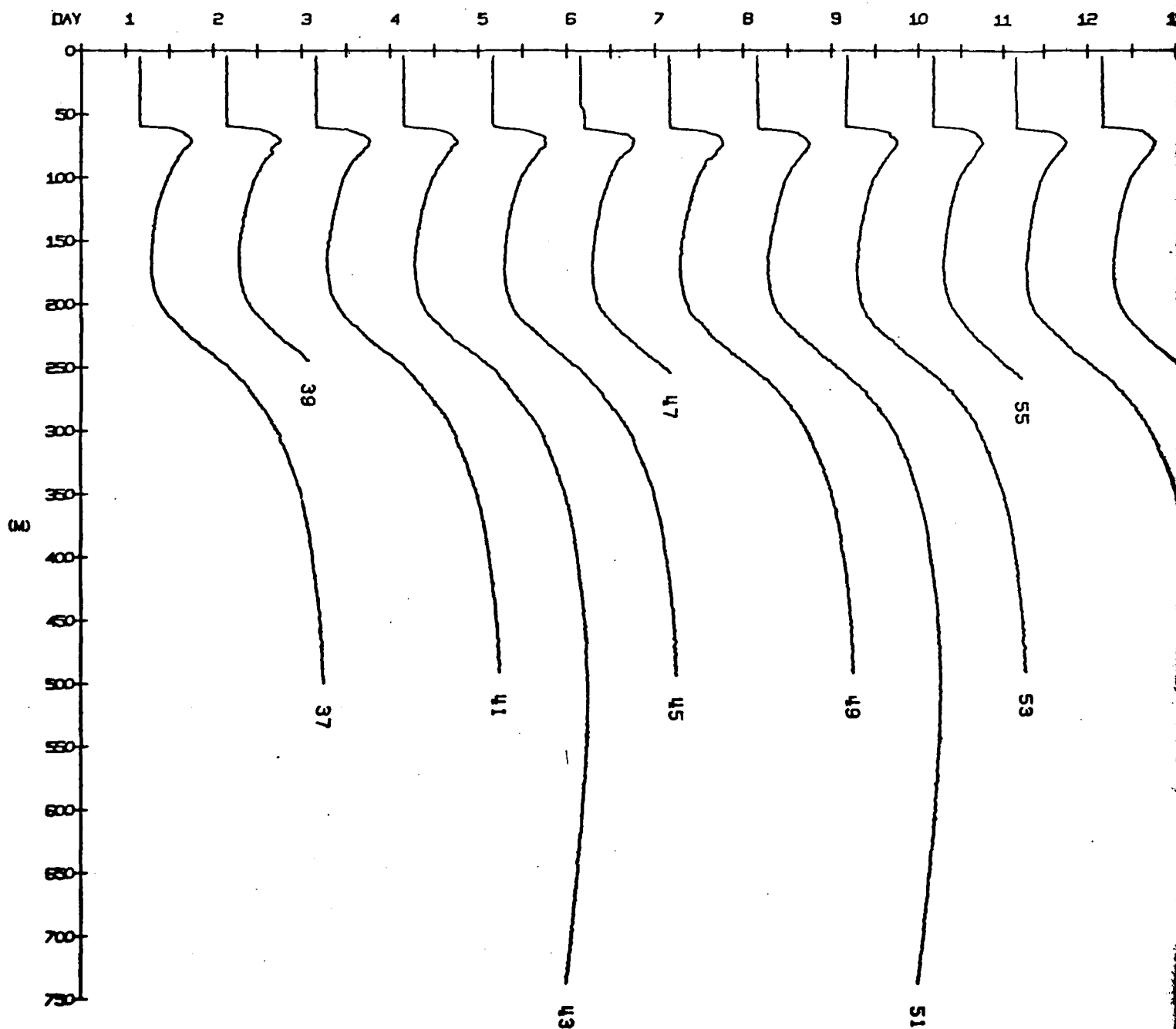




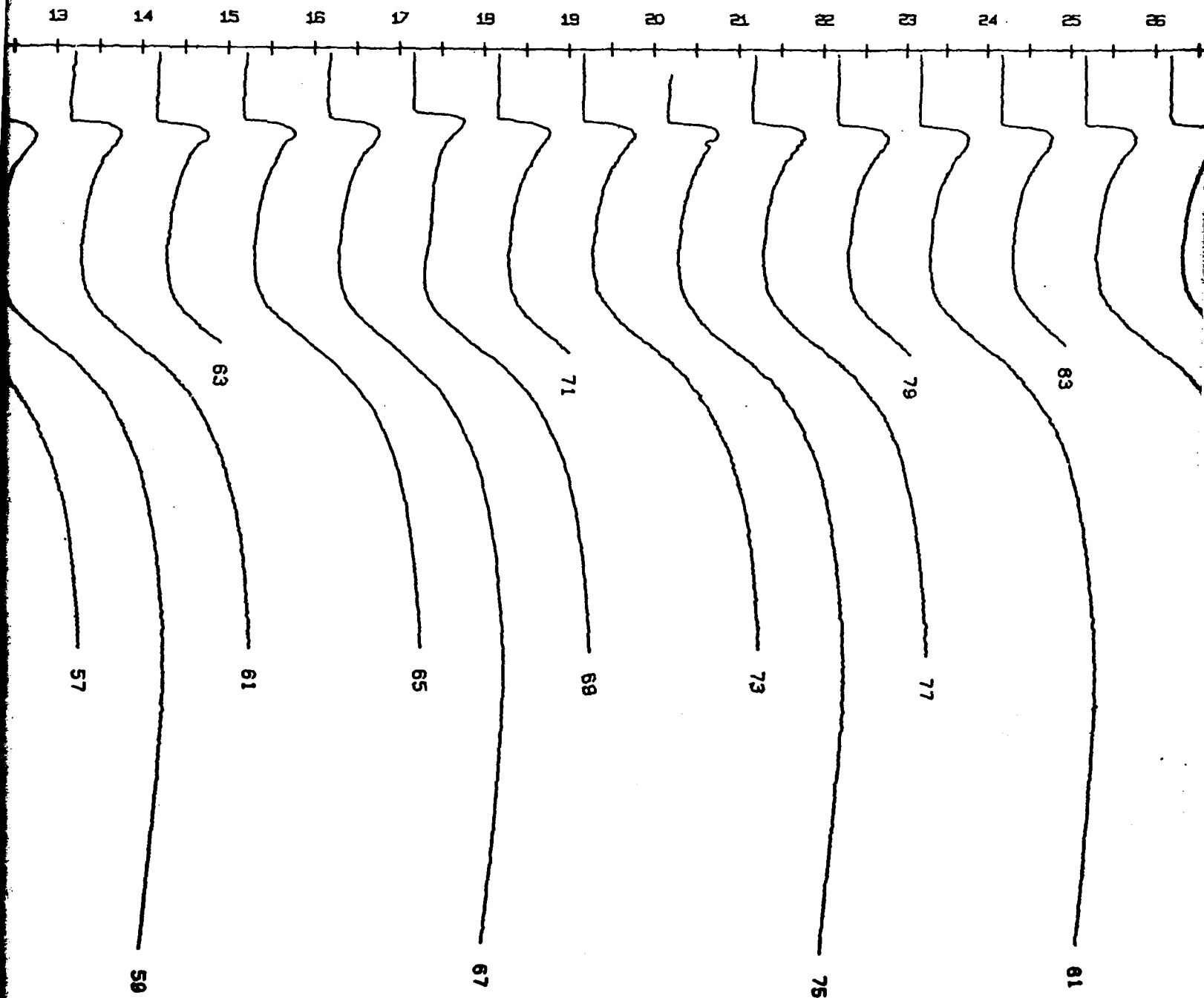


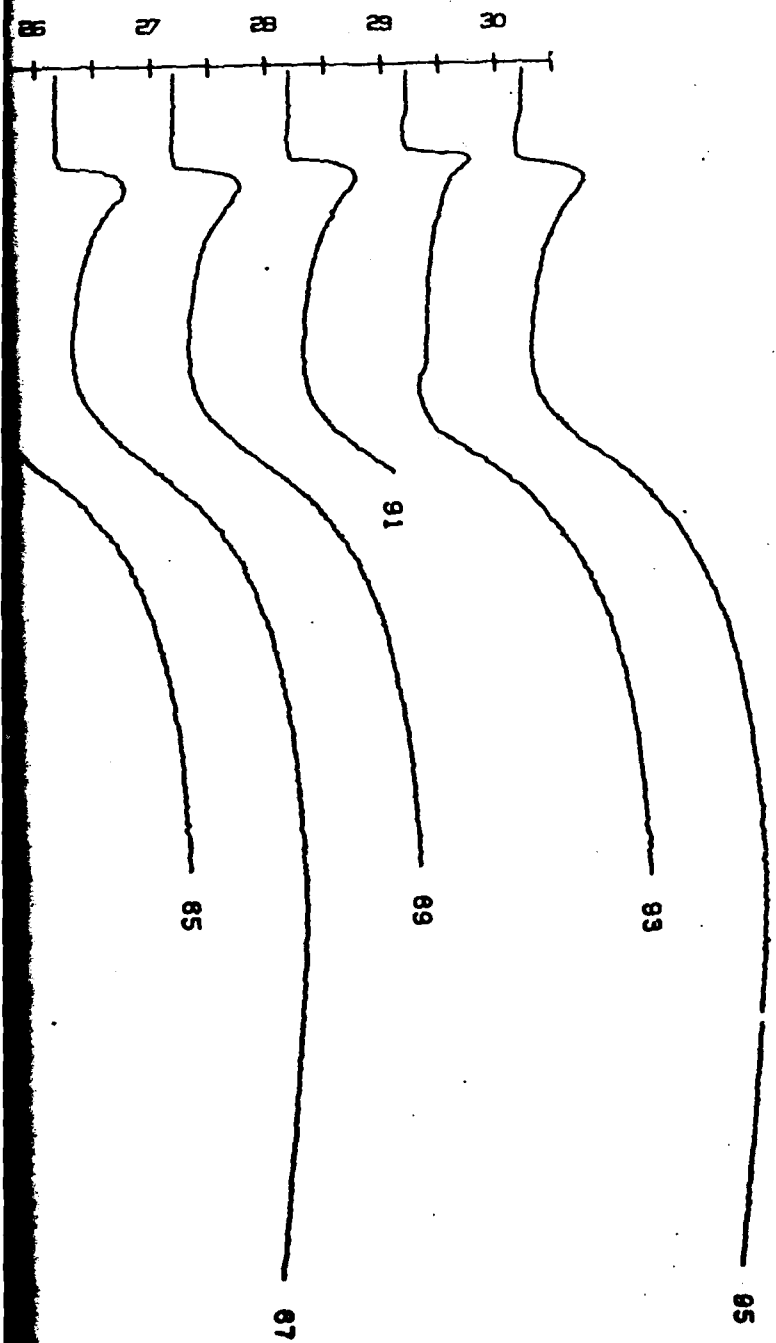
TEMPER

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY

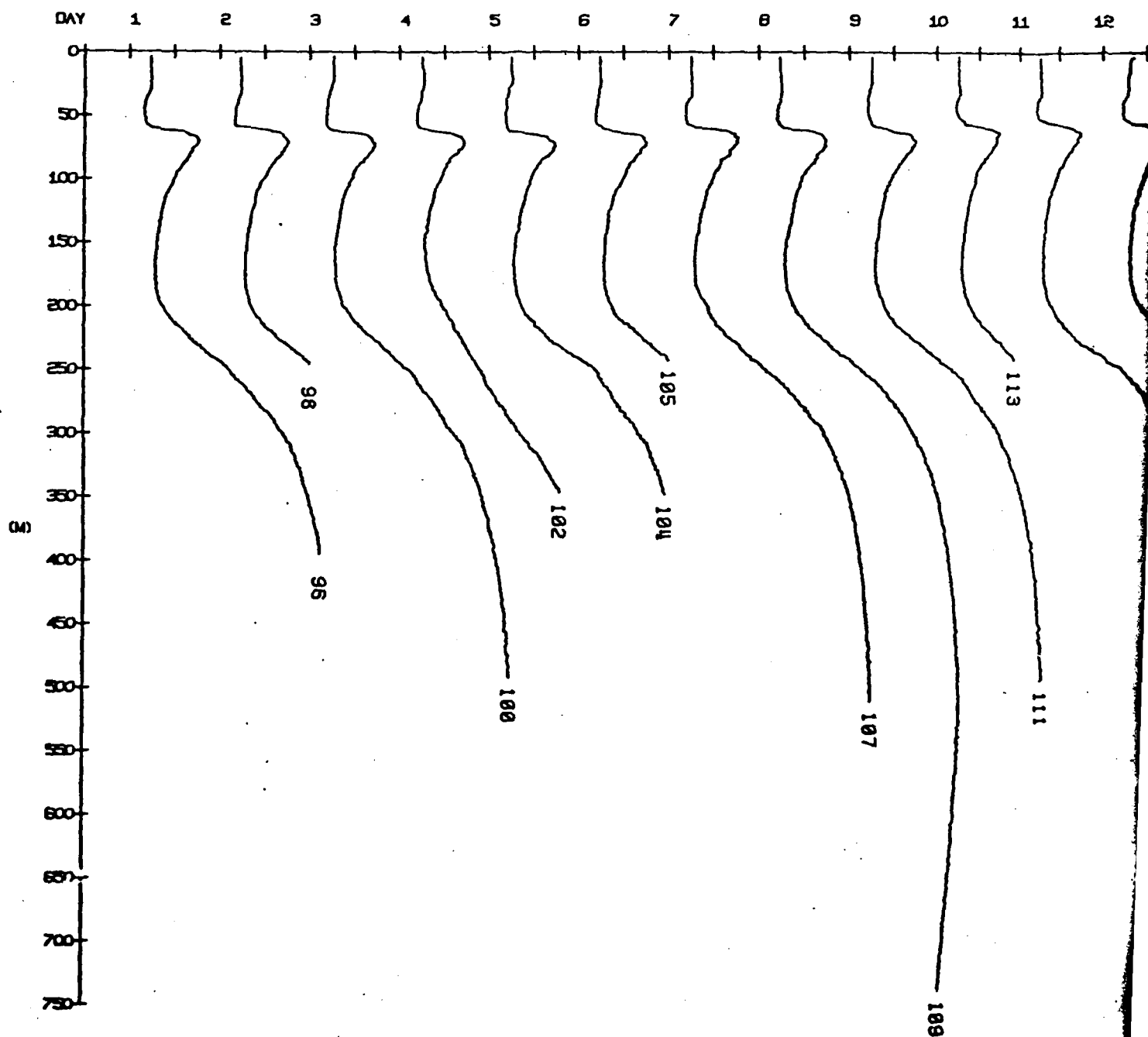


TEMPERATURE PROFILES AT CAMP CARIBOU  
JUN 1, 1975 TO JUN 30, 1975

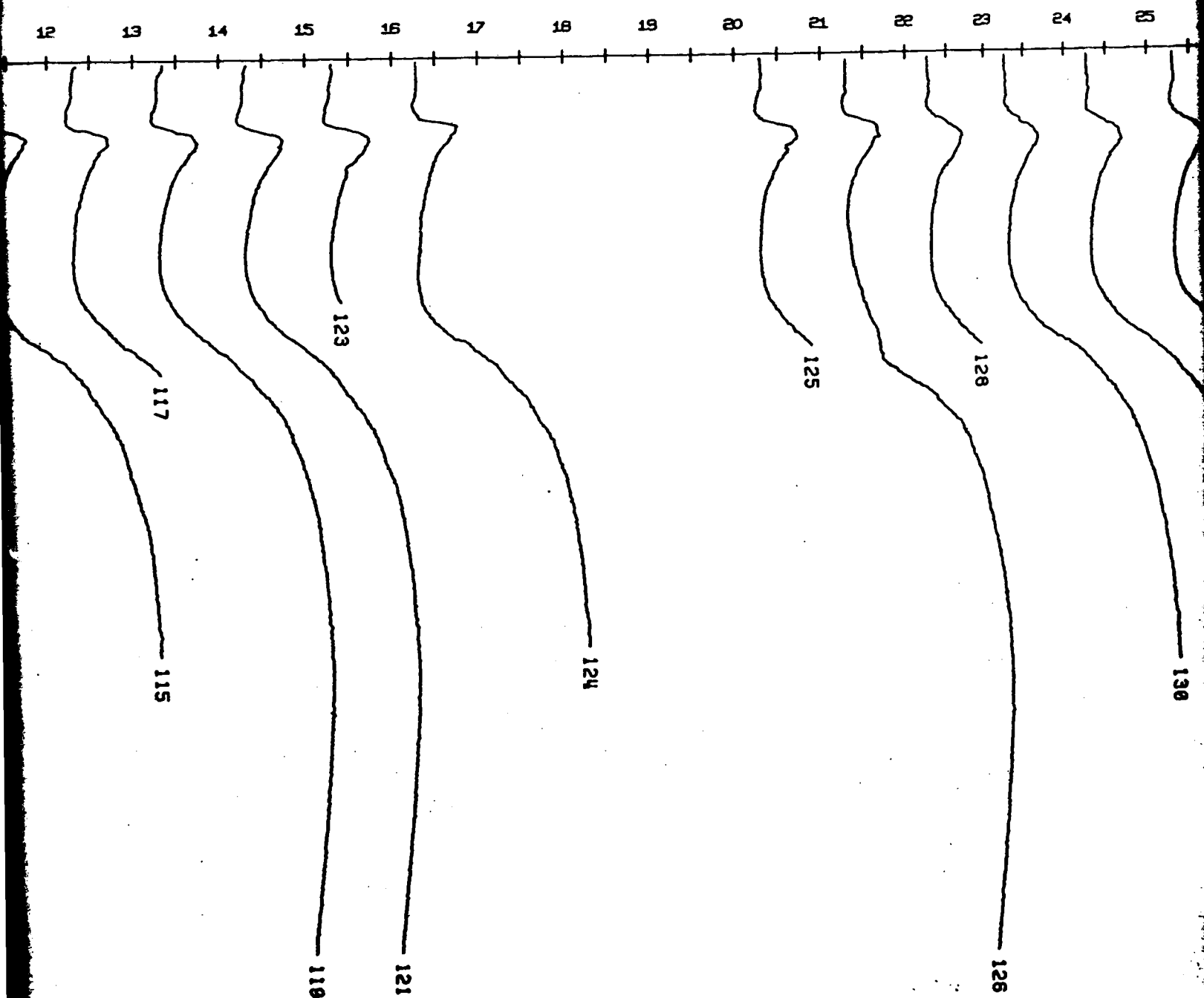


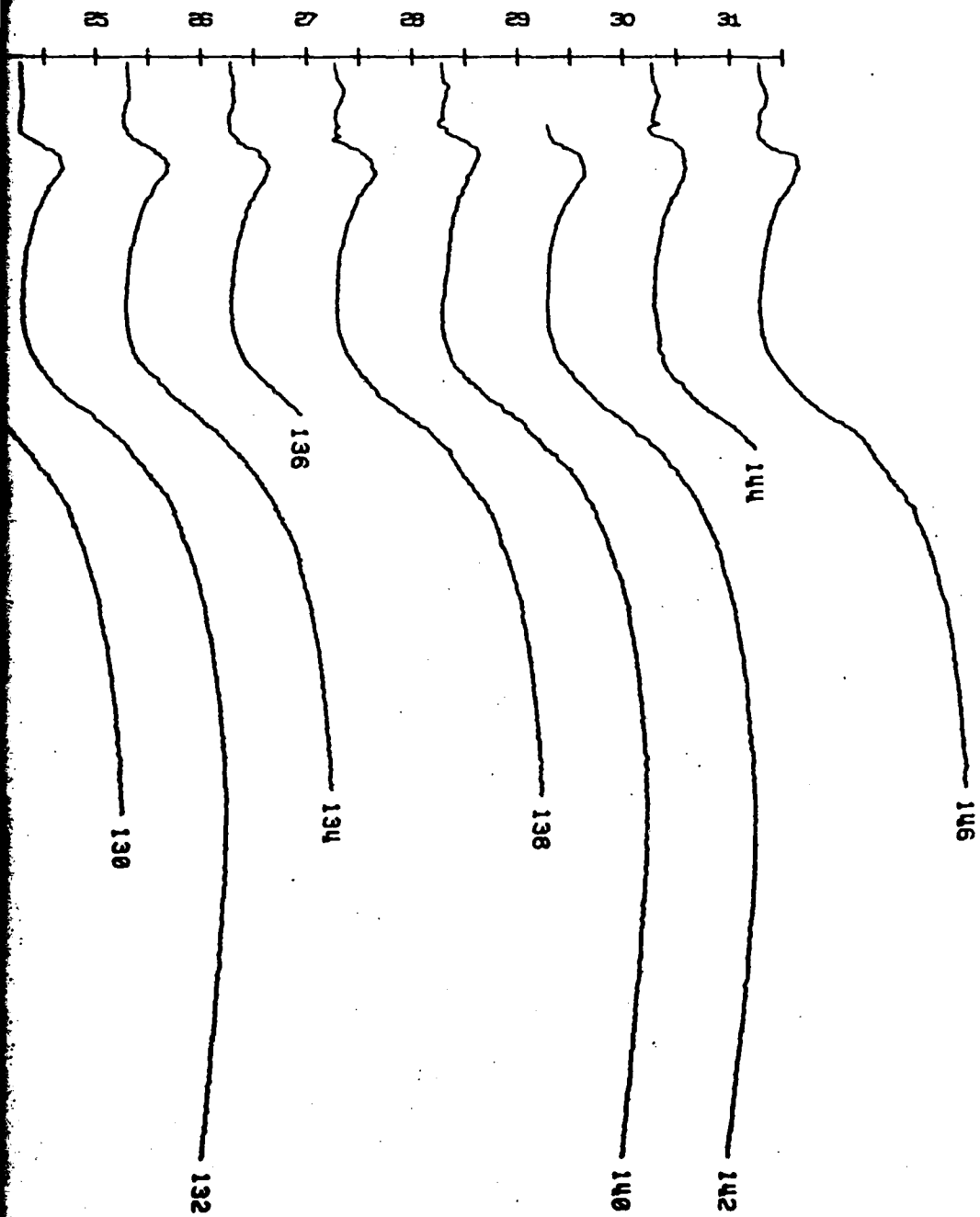


- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG.C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY

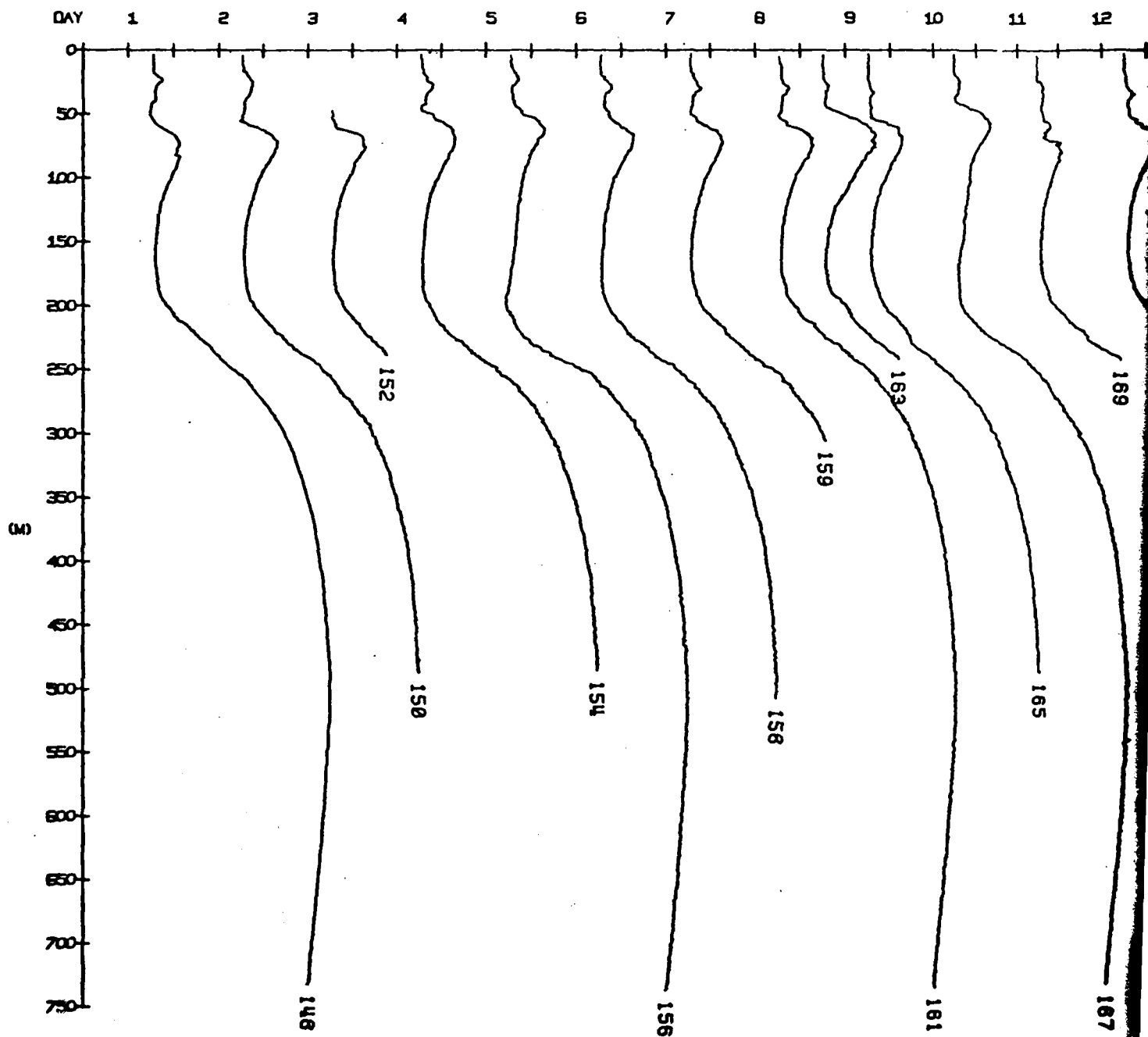


TEMPERATURE PROFILES AT CAMP CARIBOU  
JUL 1, 1975 TO JUL 31, 1975



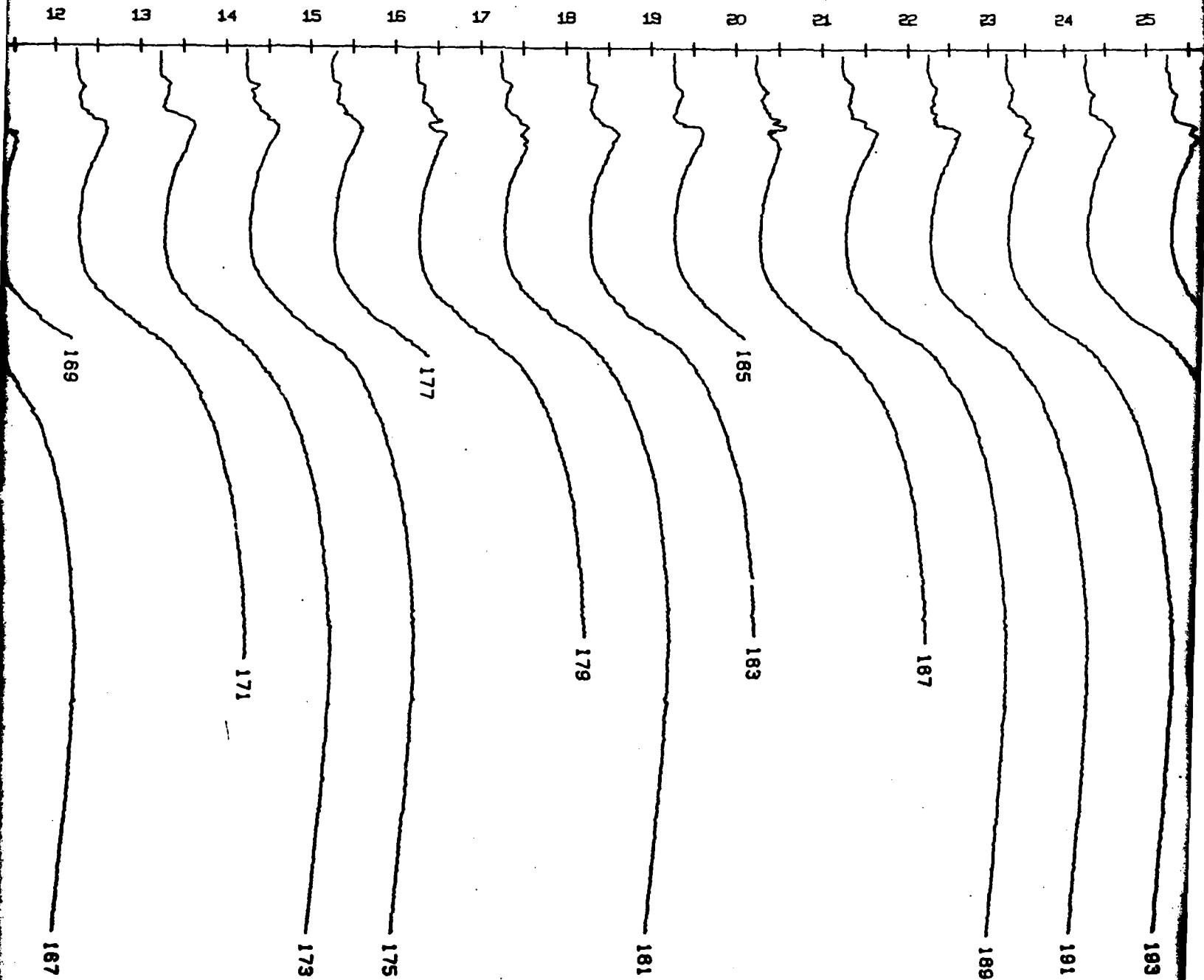


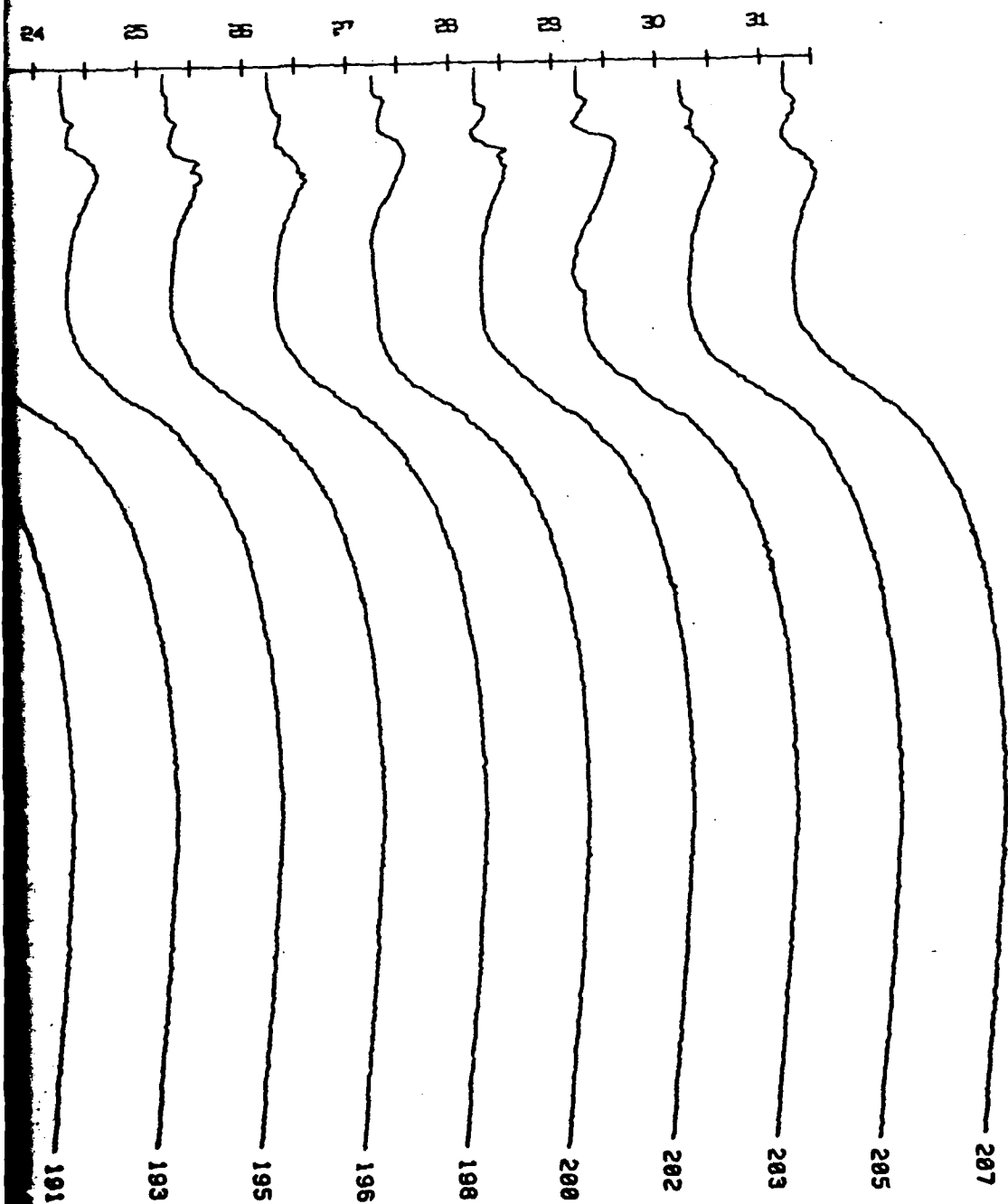
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- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY





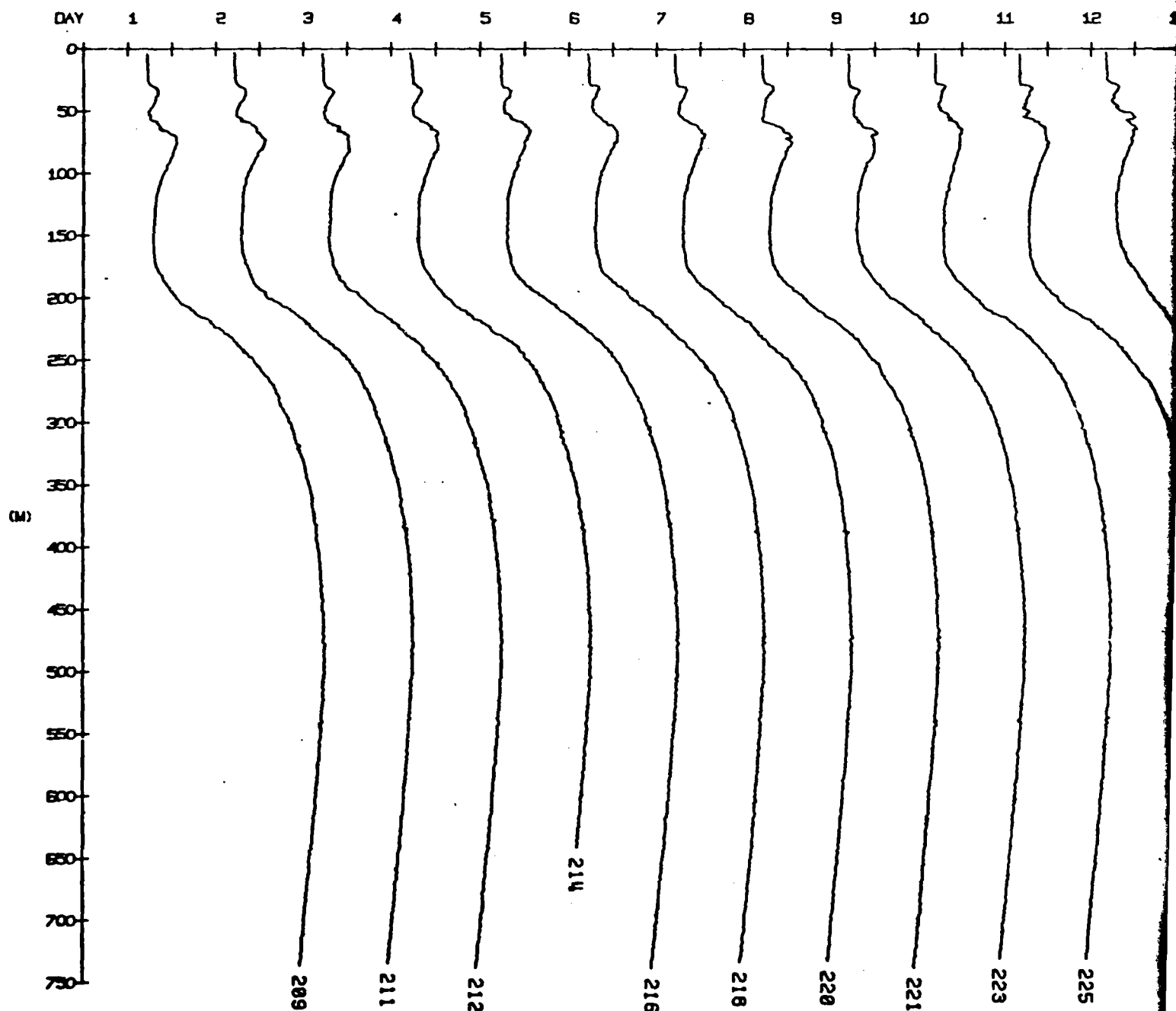
TEMPERATURE PROFILES AT CAMP CARIBOU  
AUG 1, 1975 TO AUG 31, 1975



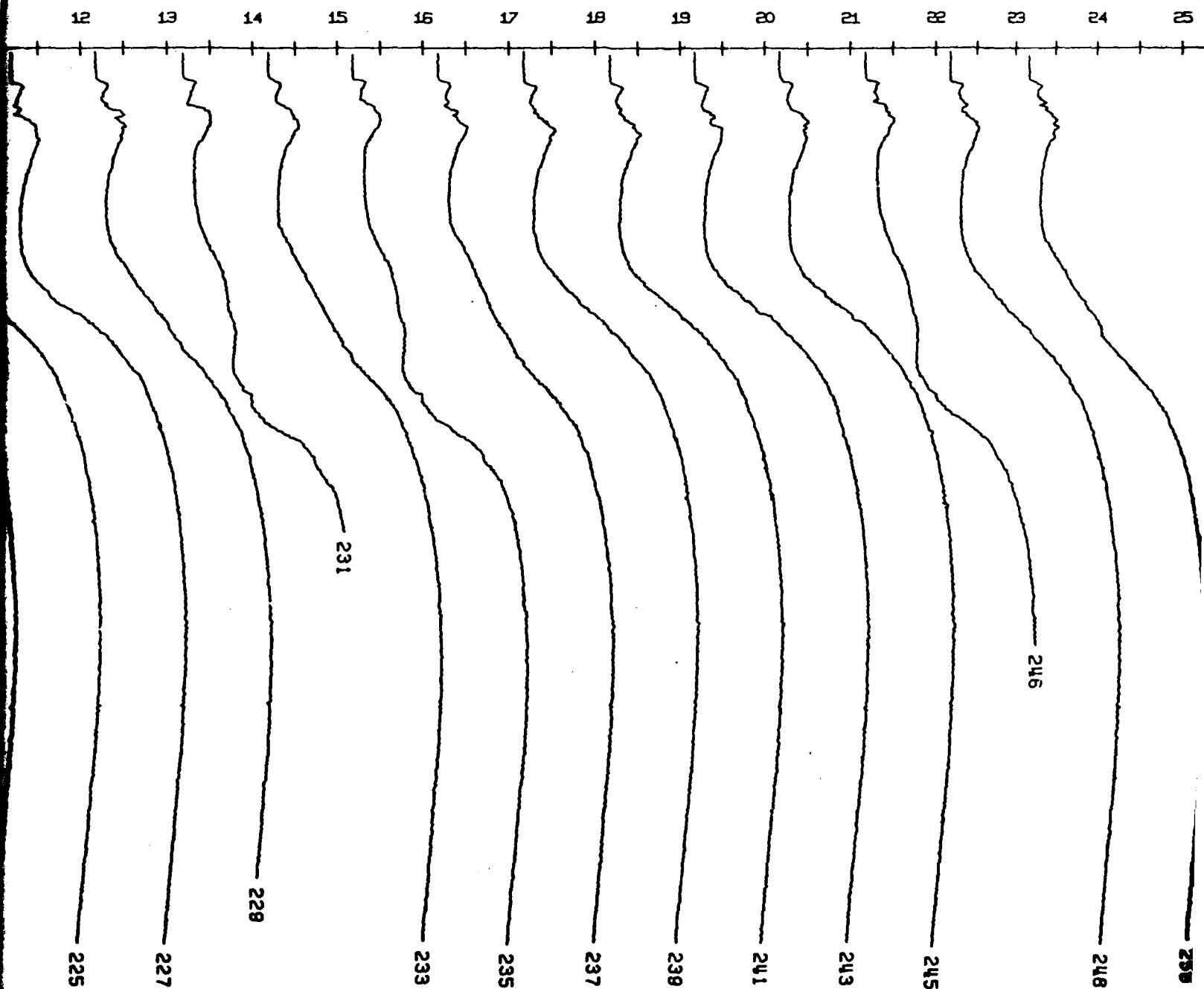


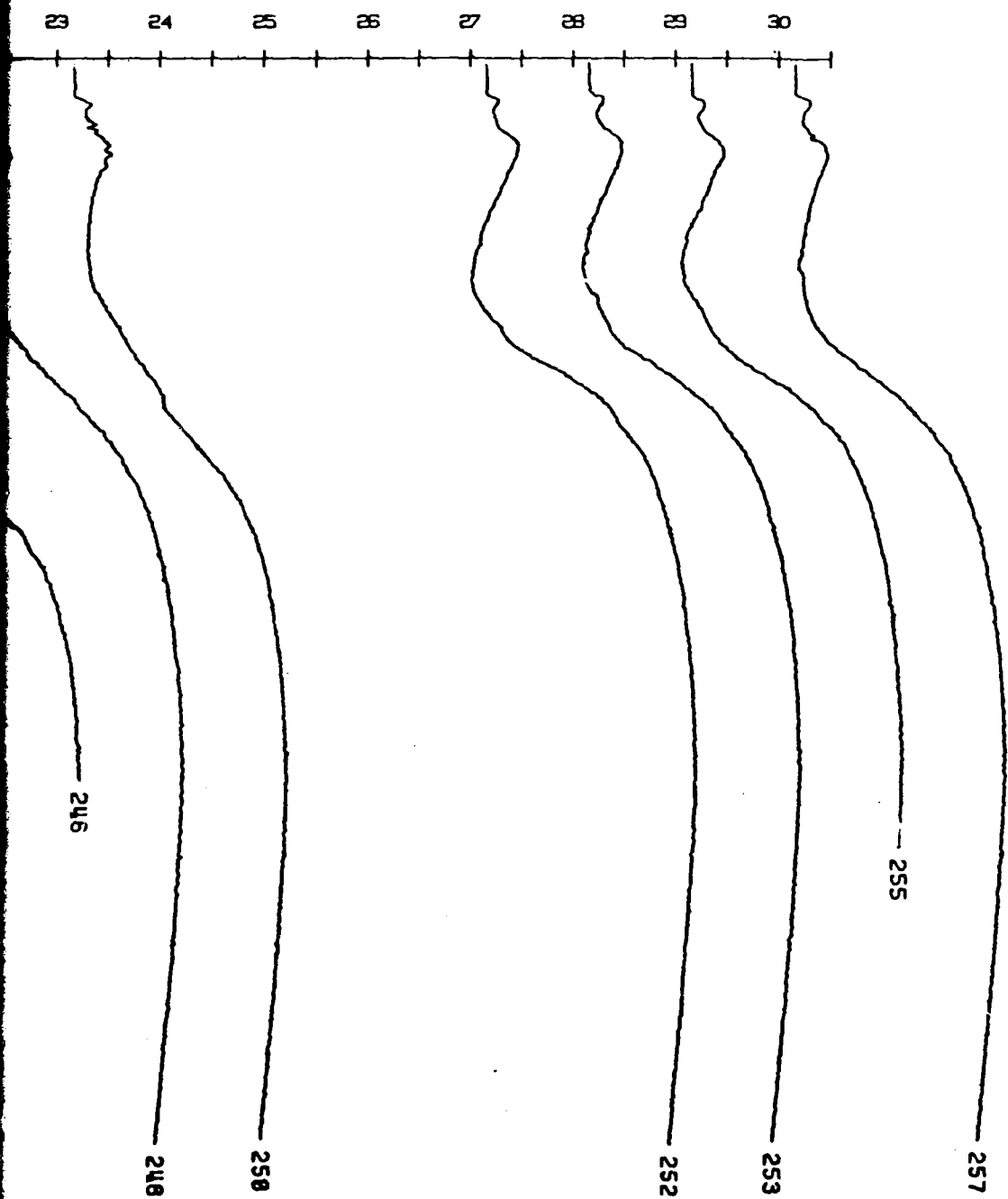
# TEMPERATURE

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



TEMPERATURE PROFILES AT CAMP CARIBOU  
SEP 1, 1975 TO SEP 30, 1975





AD-A118 202

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES NY

F/G 8/10

ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)

FEB 80 E BAUER, K HUNKINS, T O MANLEY

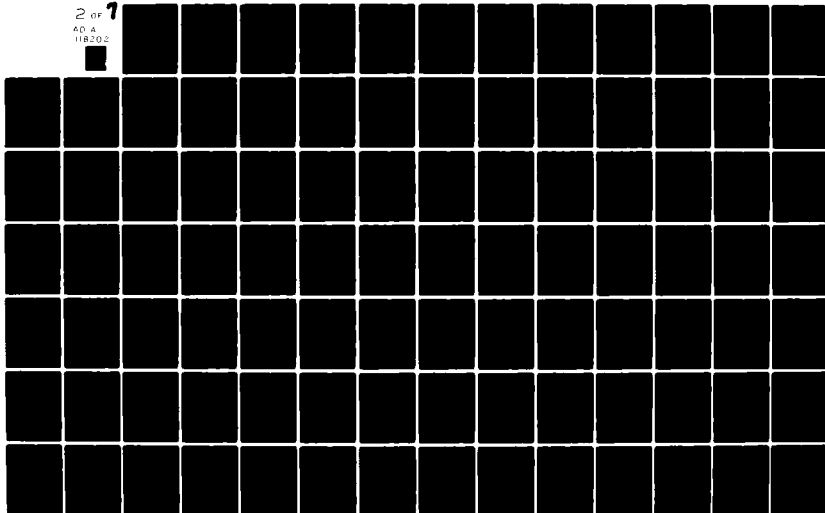
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UNCLASSIFIED

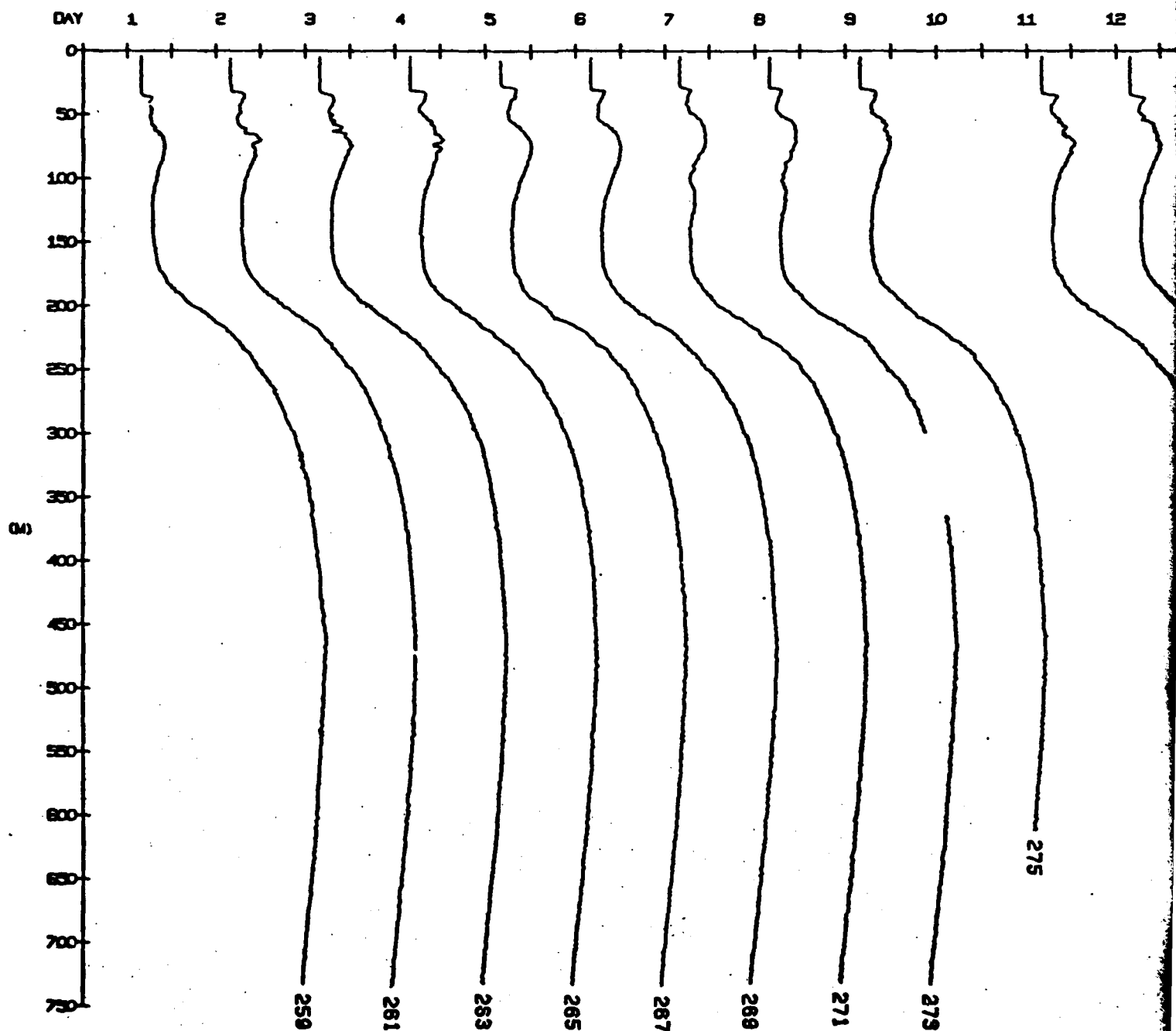
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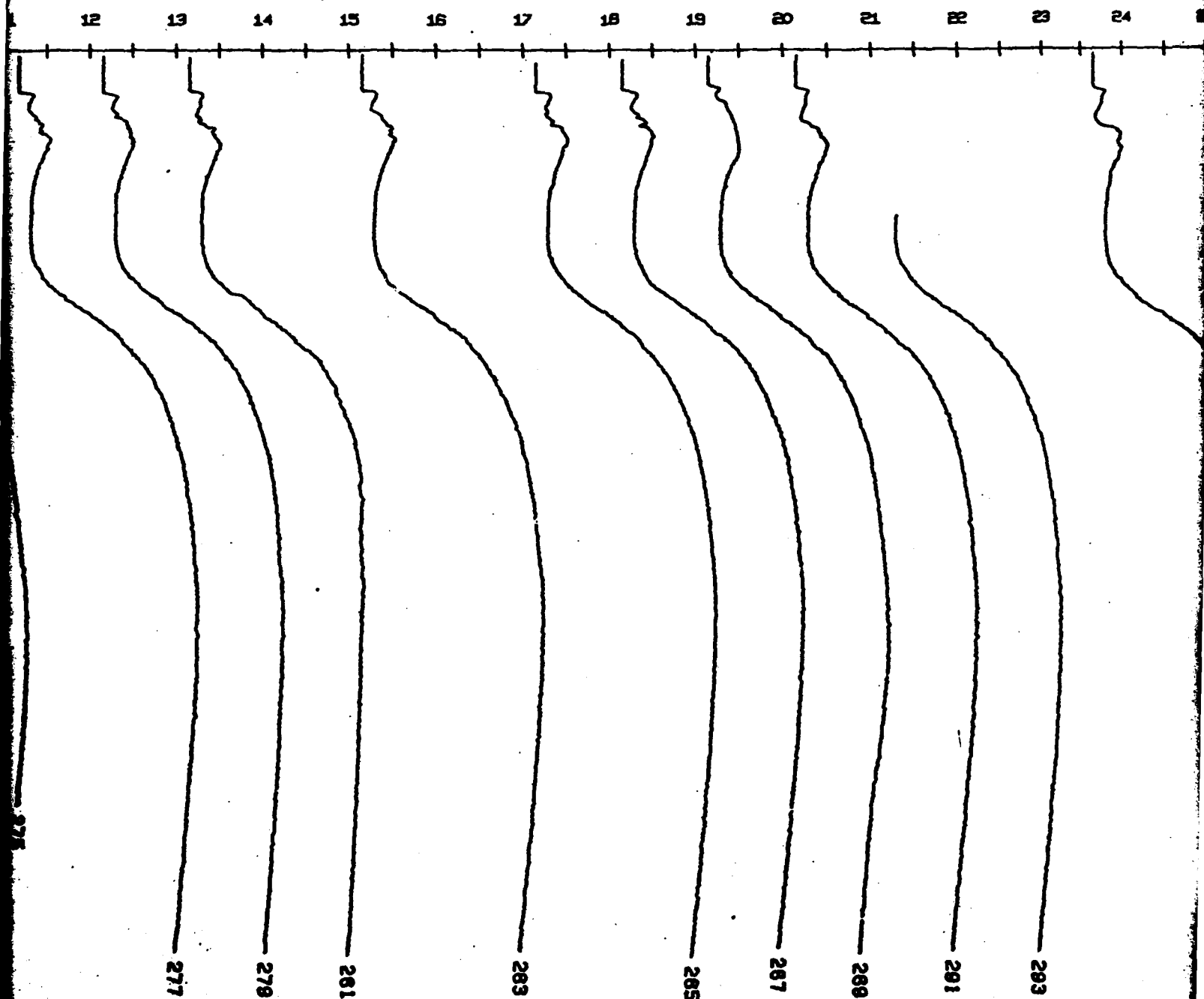
2 of 7  
AD A  
118202



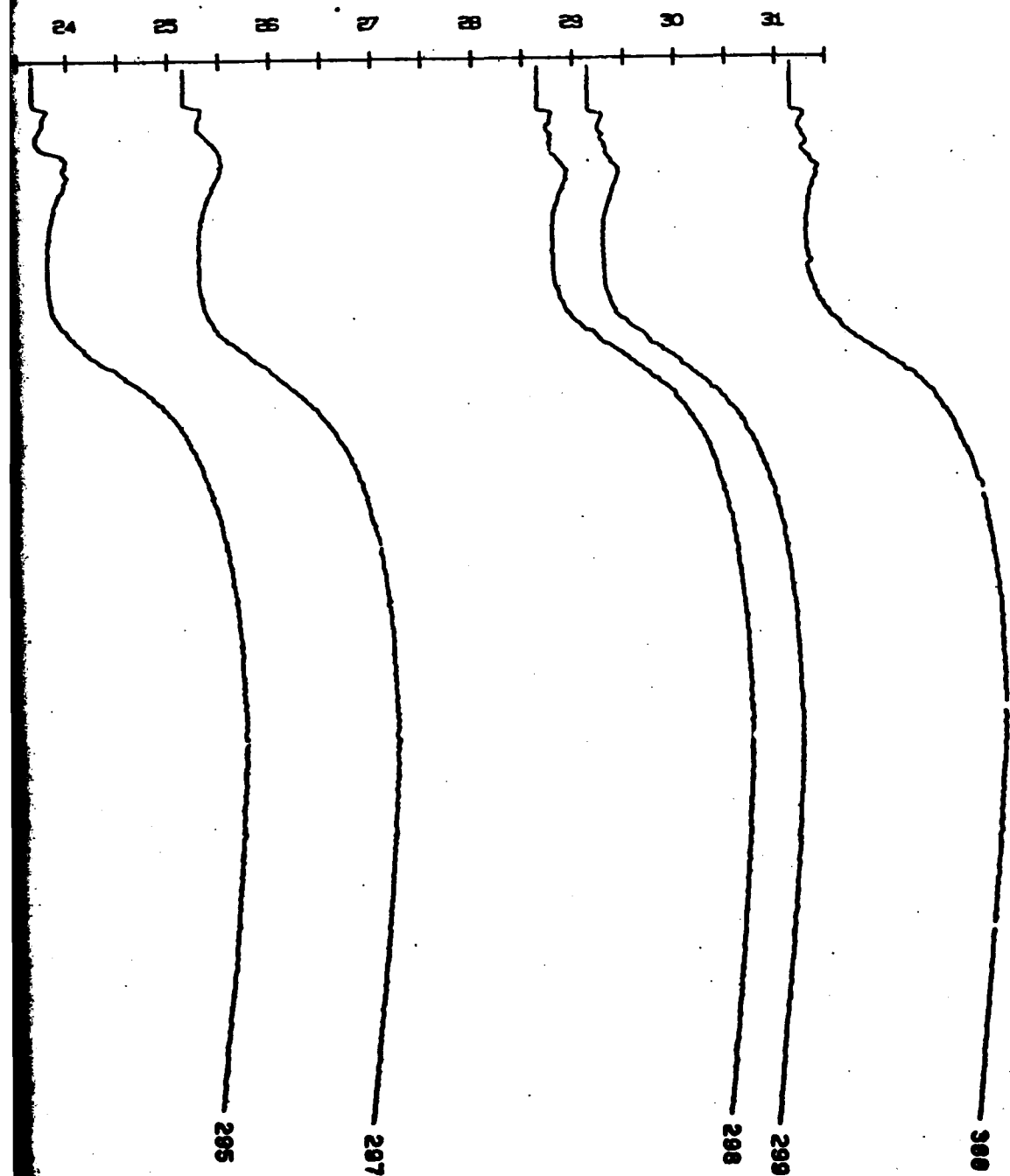
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- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( $0.5 \text{ DEG} \cdot \text{C} \cdot$ ) PER HALF DAY



TEMPERATURE PROFILES AT CAMP CARIBOU  
OCT 1, 1975 TO OCT 31, 1975

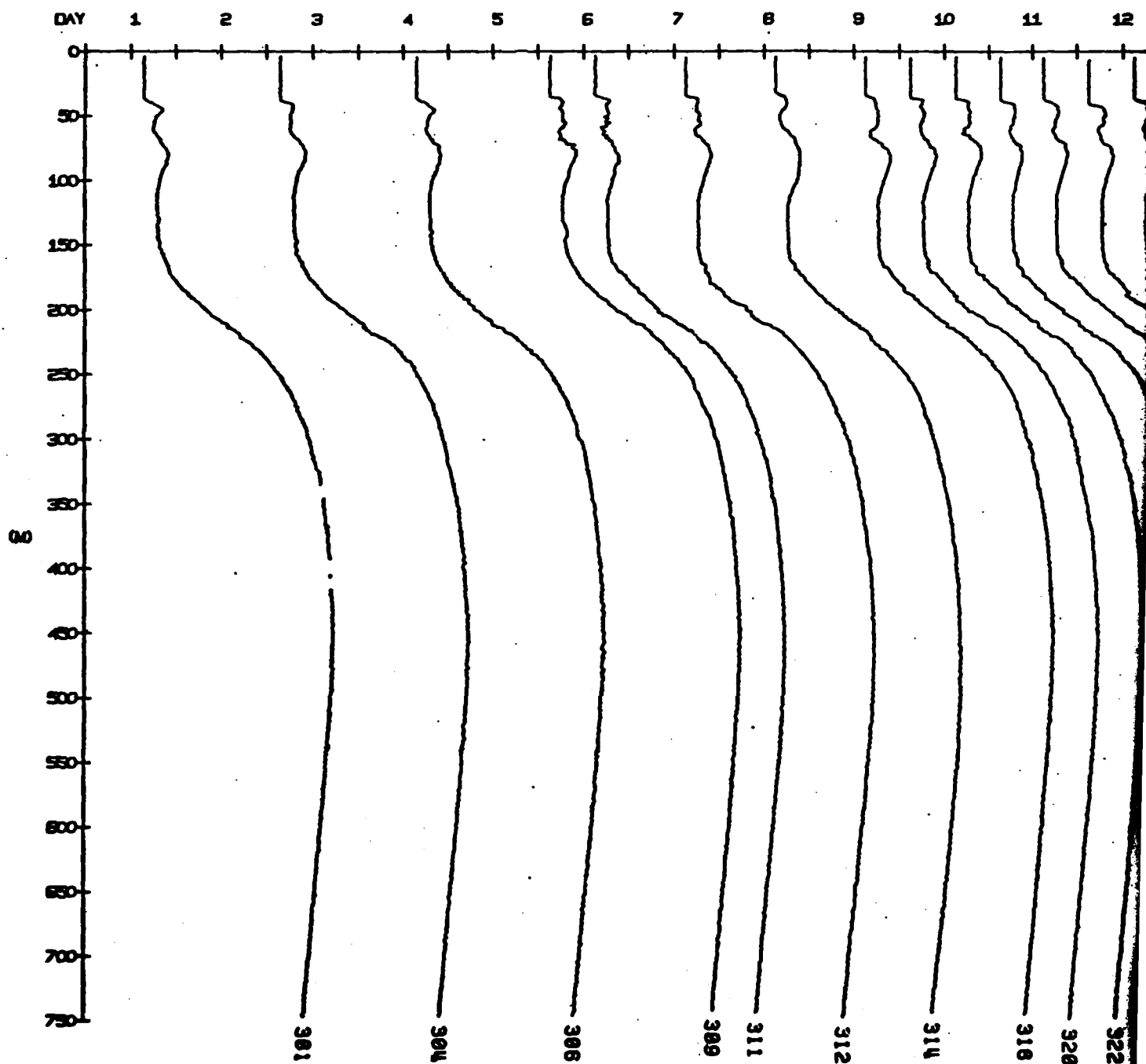






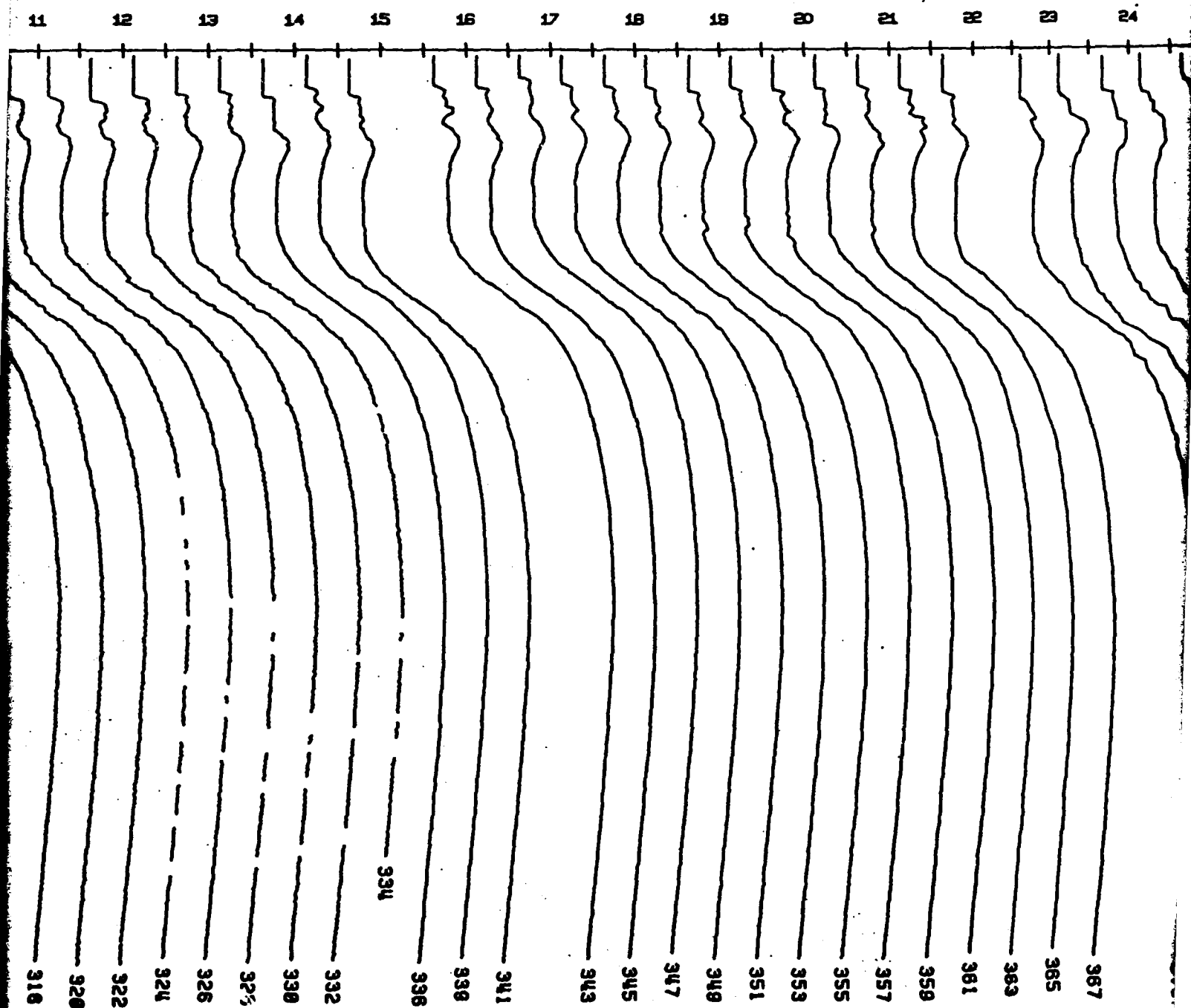
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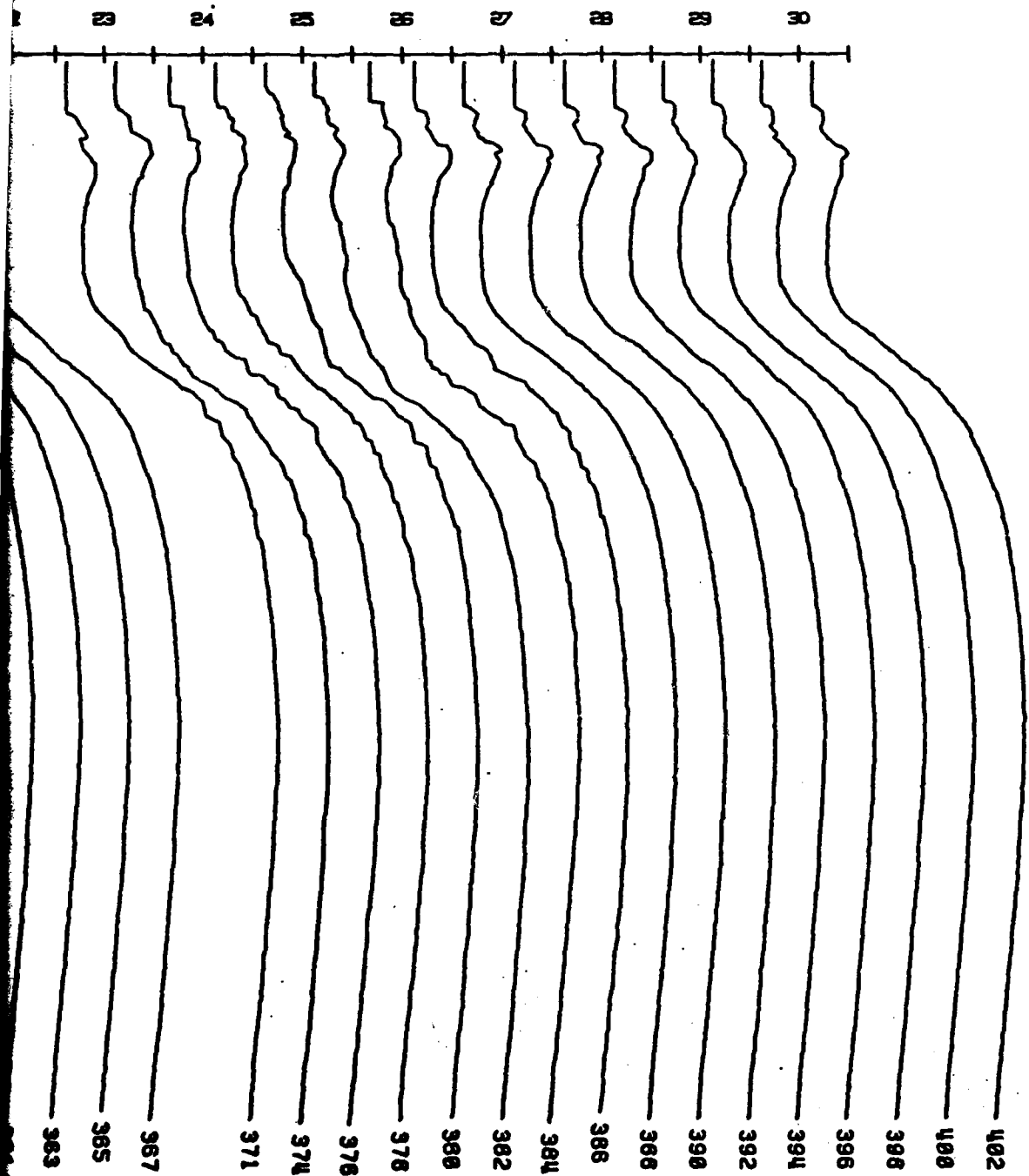
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- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY



# TEMPERATURE PROFILES AT CAMP CARIBOU

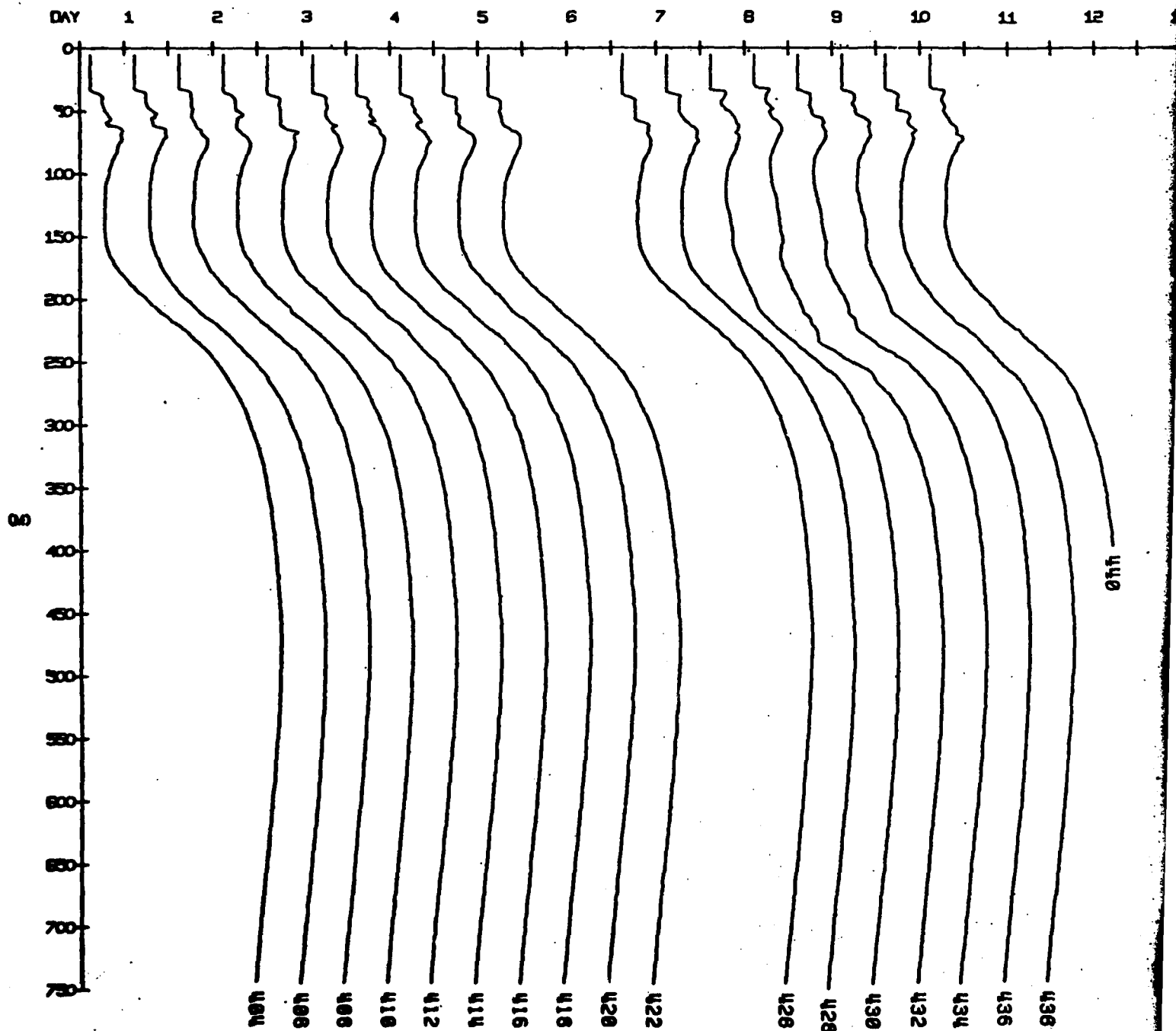
## NOV 1, 1975 TO NOV 30, 1975



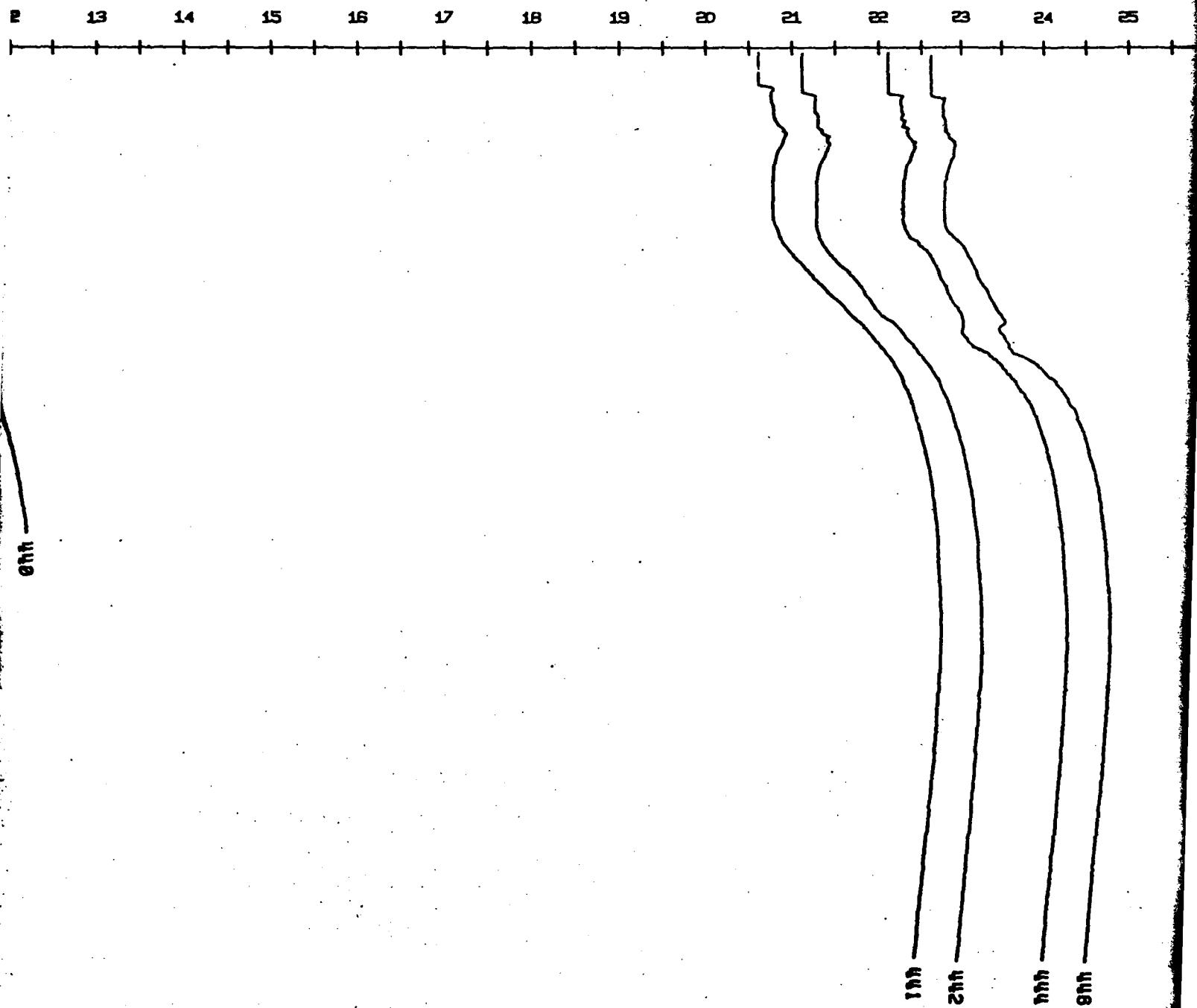


TEM

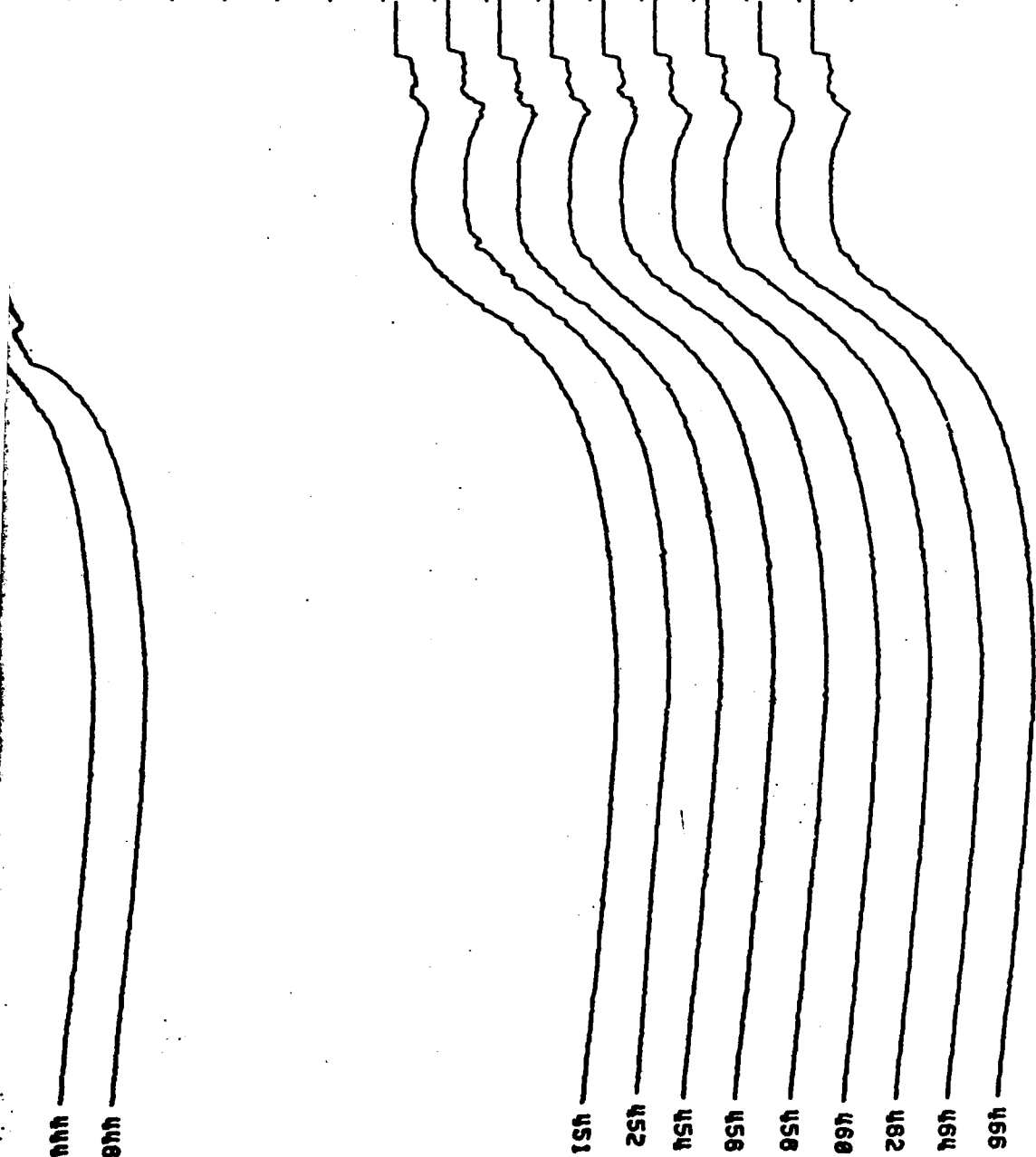
- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY



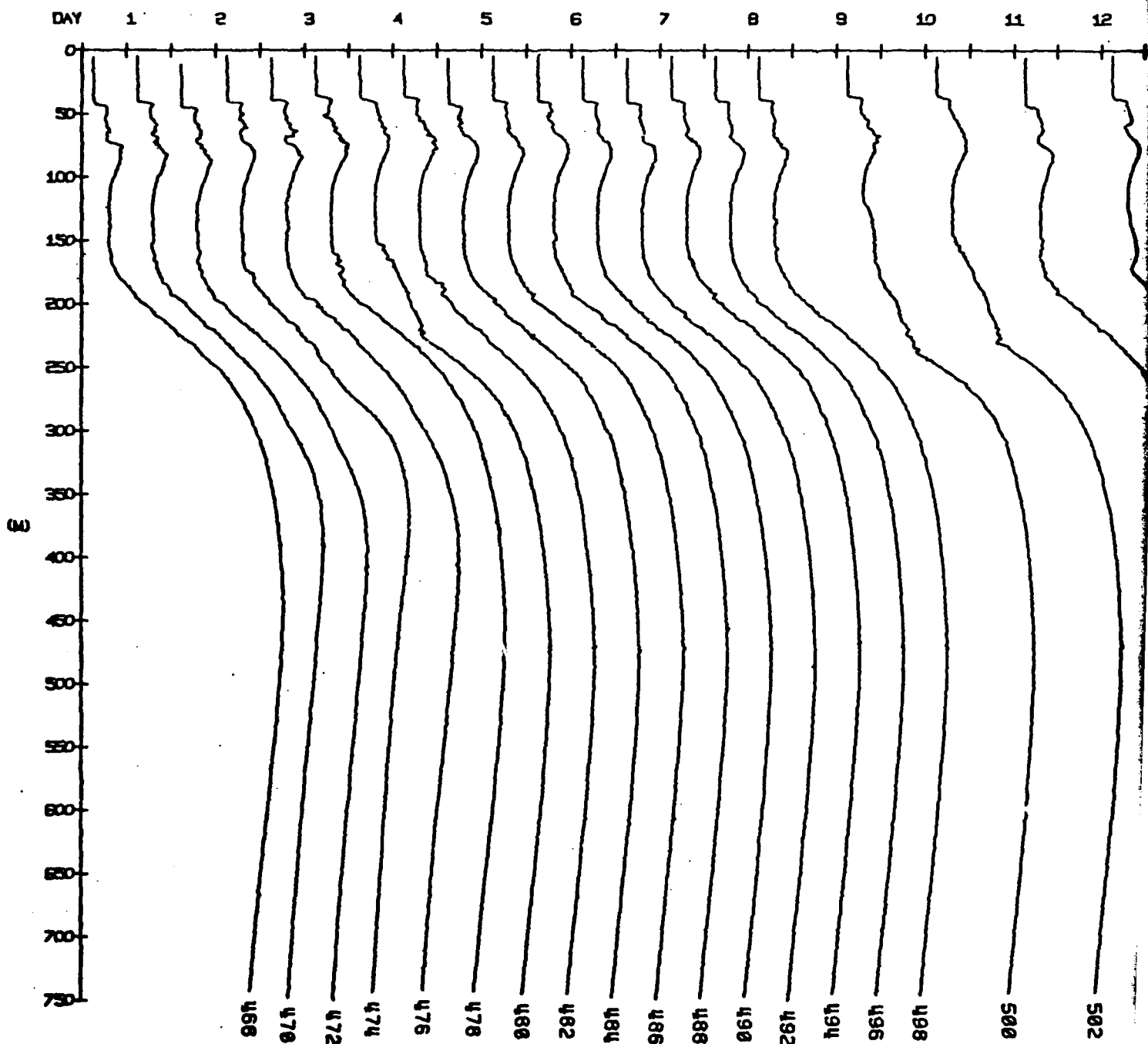
TEMPERATURE PROFILES AT CAMP CARIBOU  
DEC 1, 1975 TO DEC 31, 1975



24 25 26 27 28 29 30 31

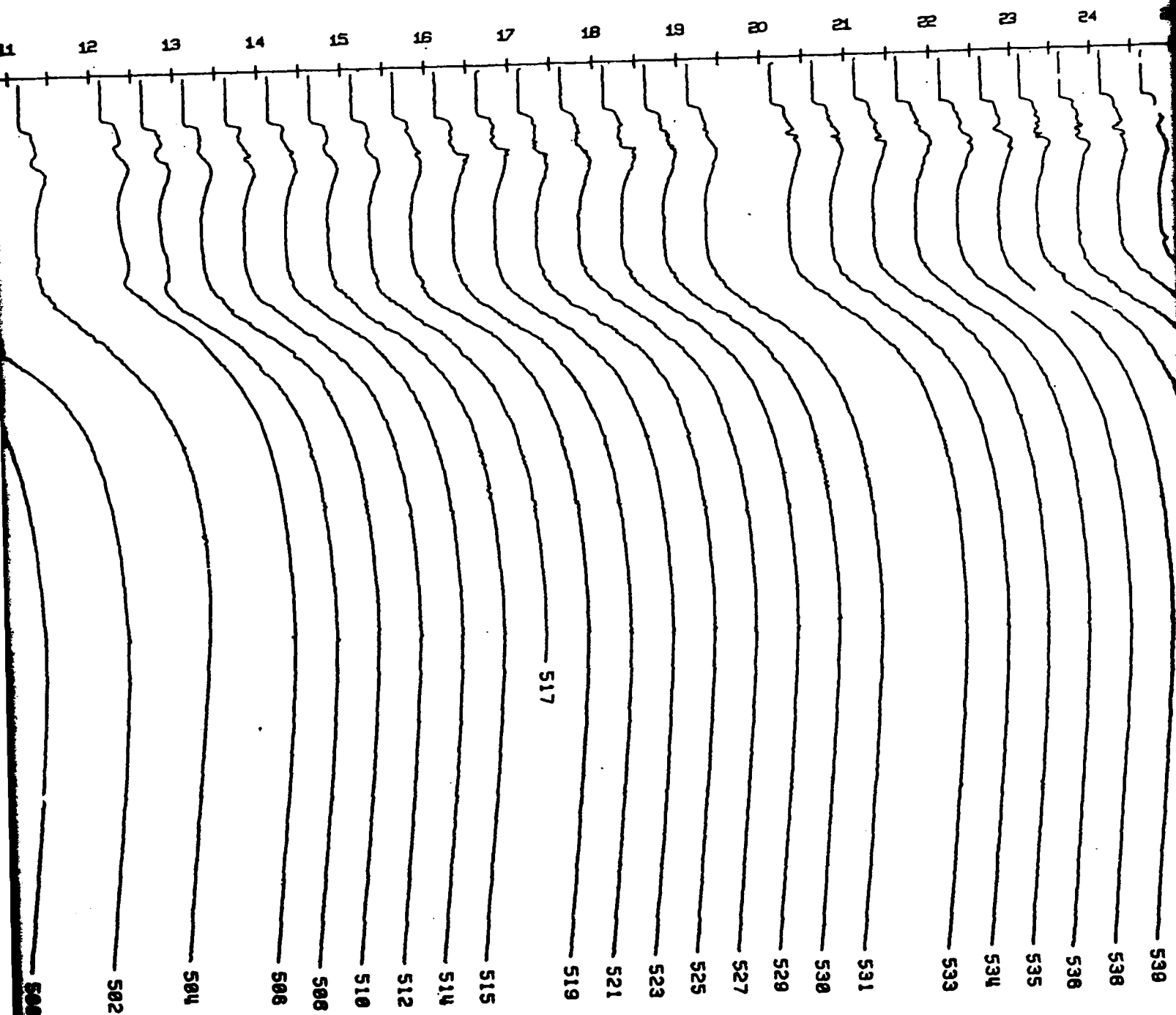


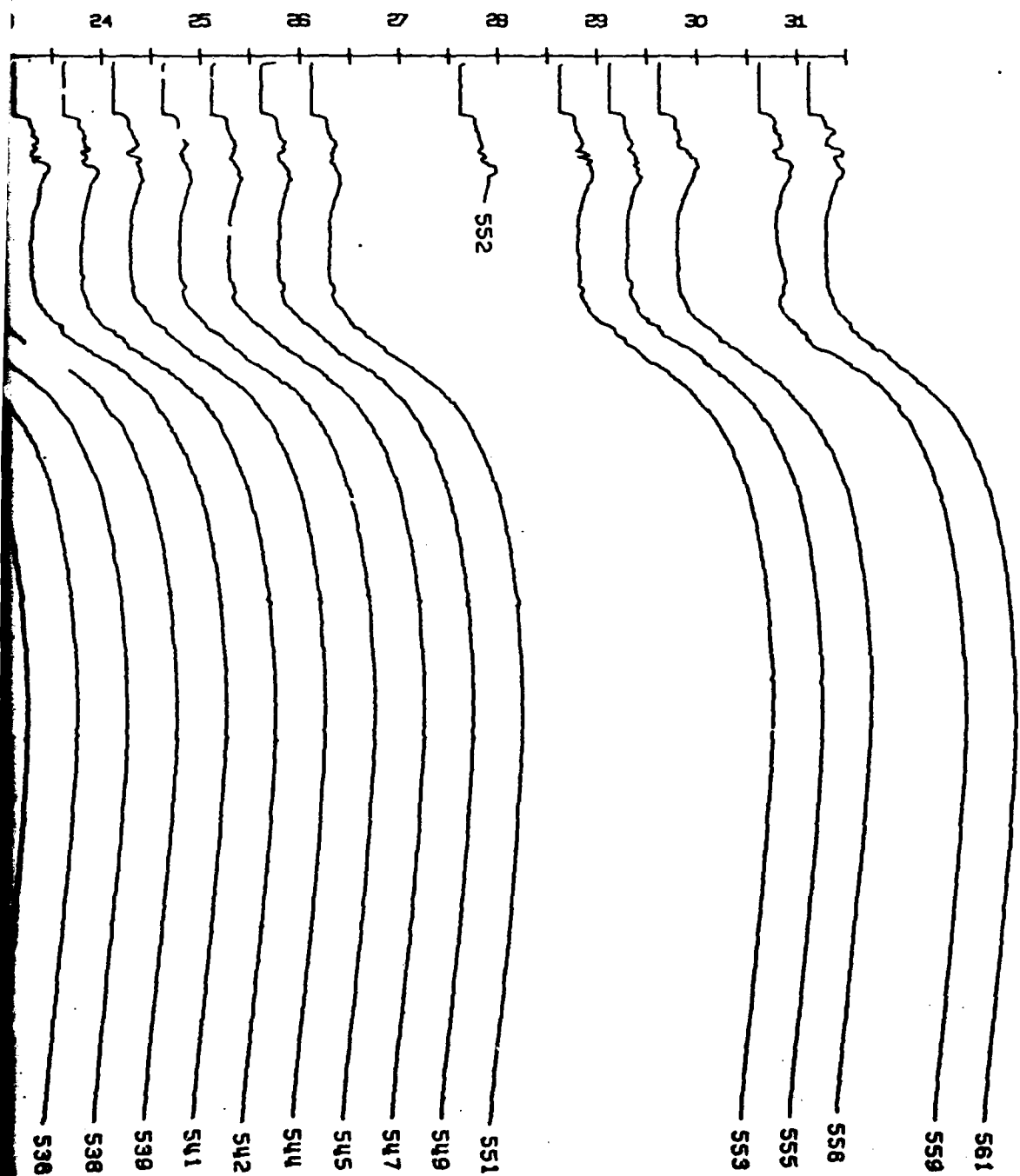
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- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG.C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY





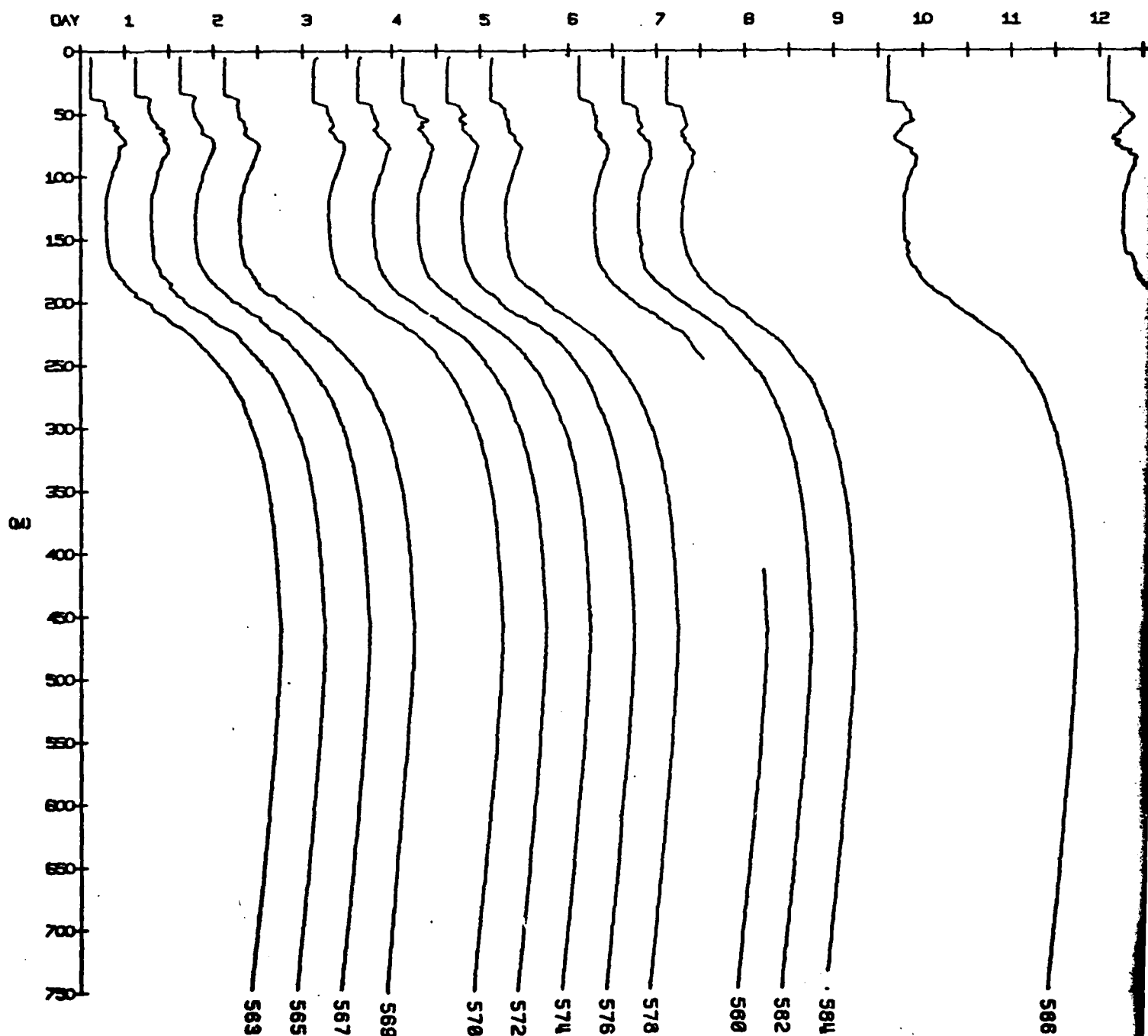
TEMPERATURE PROFILES AT CAMP CARIBOU  
JAN 1, 1976 TO JAN 31, 1976



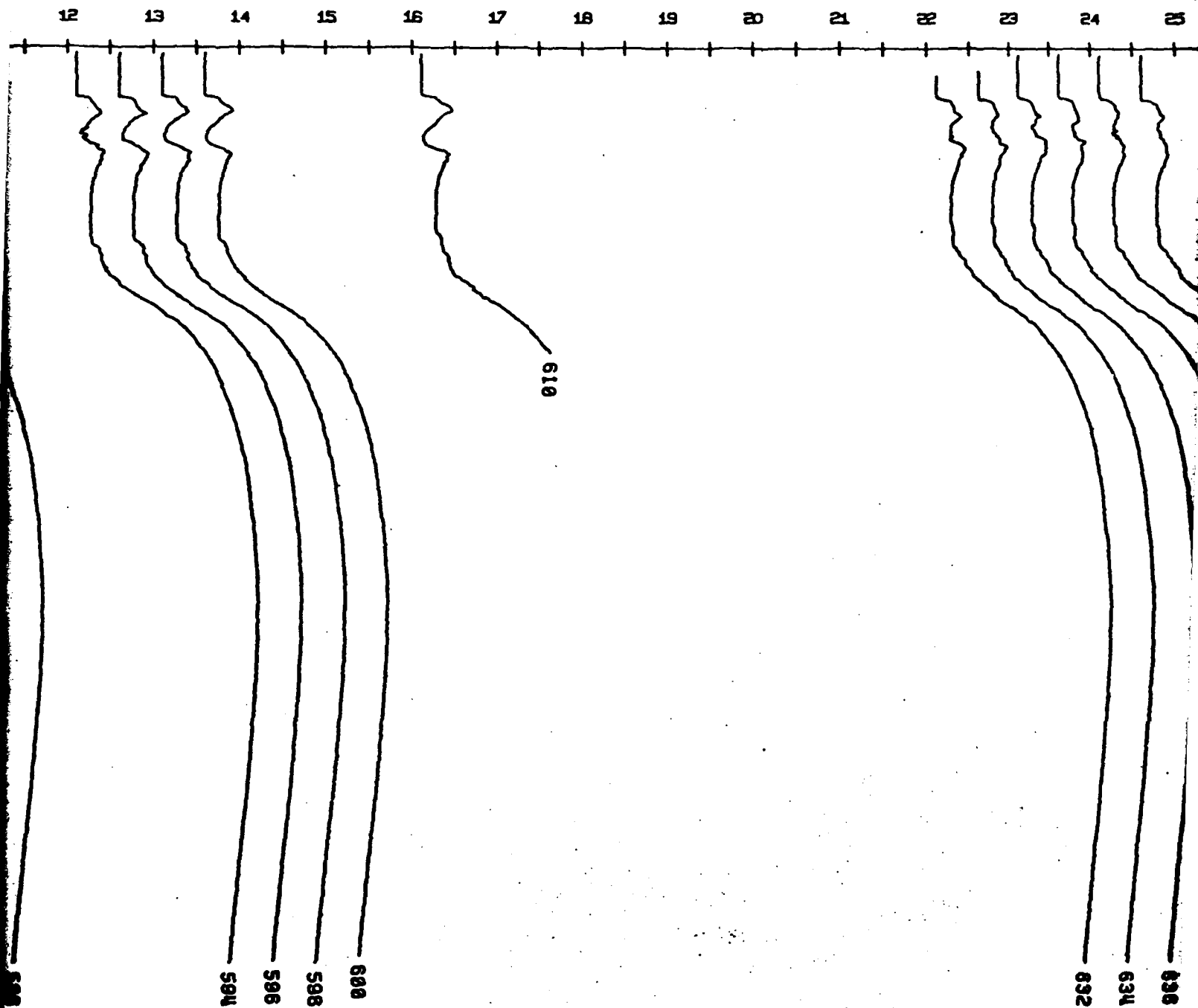


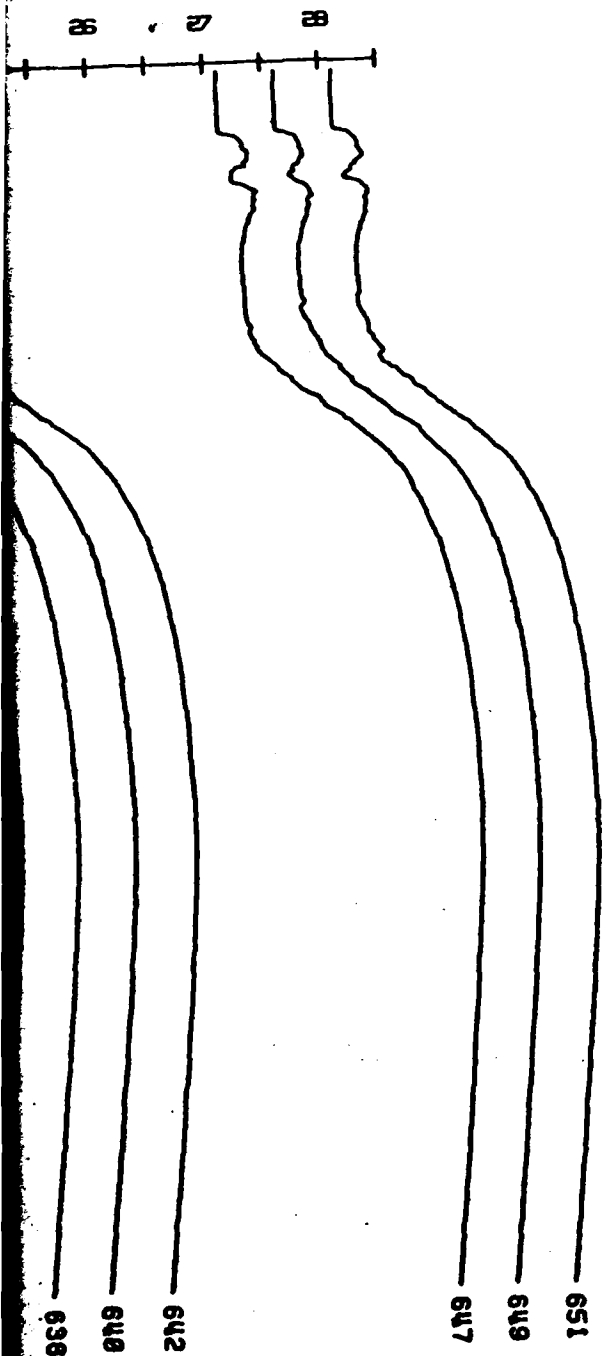
# TEMPERATURE FEB

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG. C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



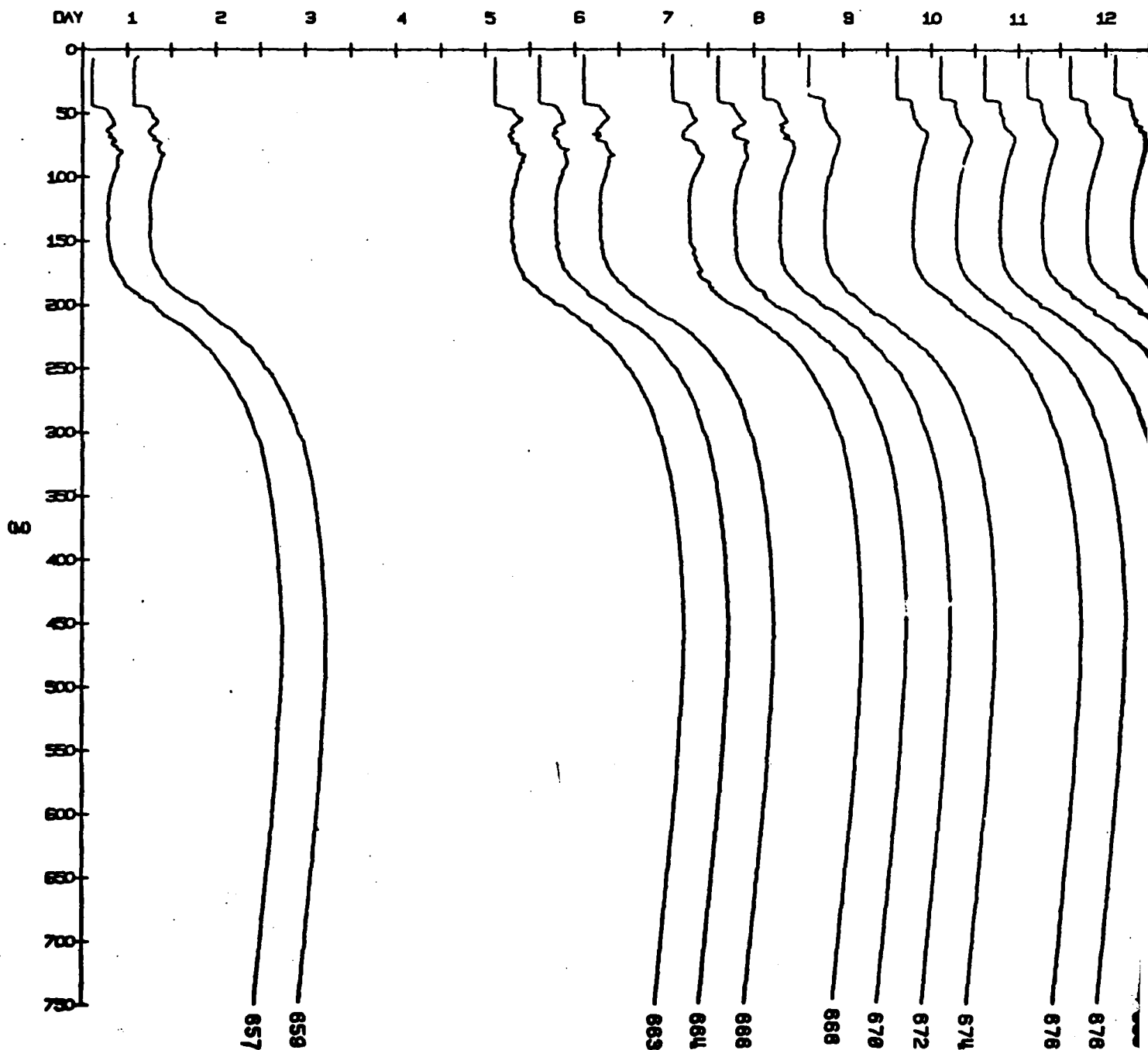
PERATURE PROFILES AT CAMP CARIBOU  
FEB 1, 1976 TO FEB 28, 1976



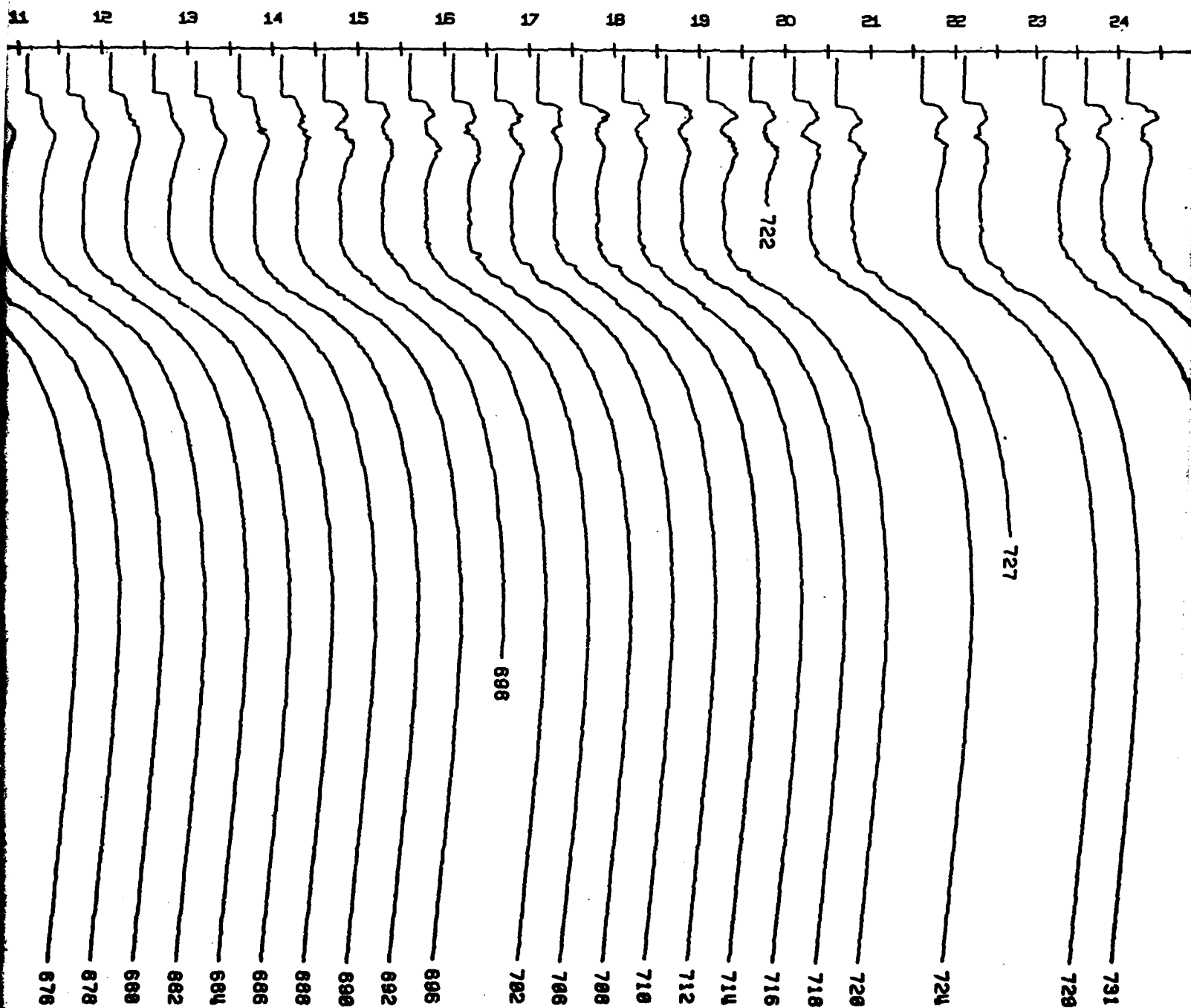


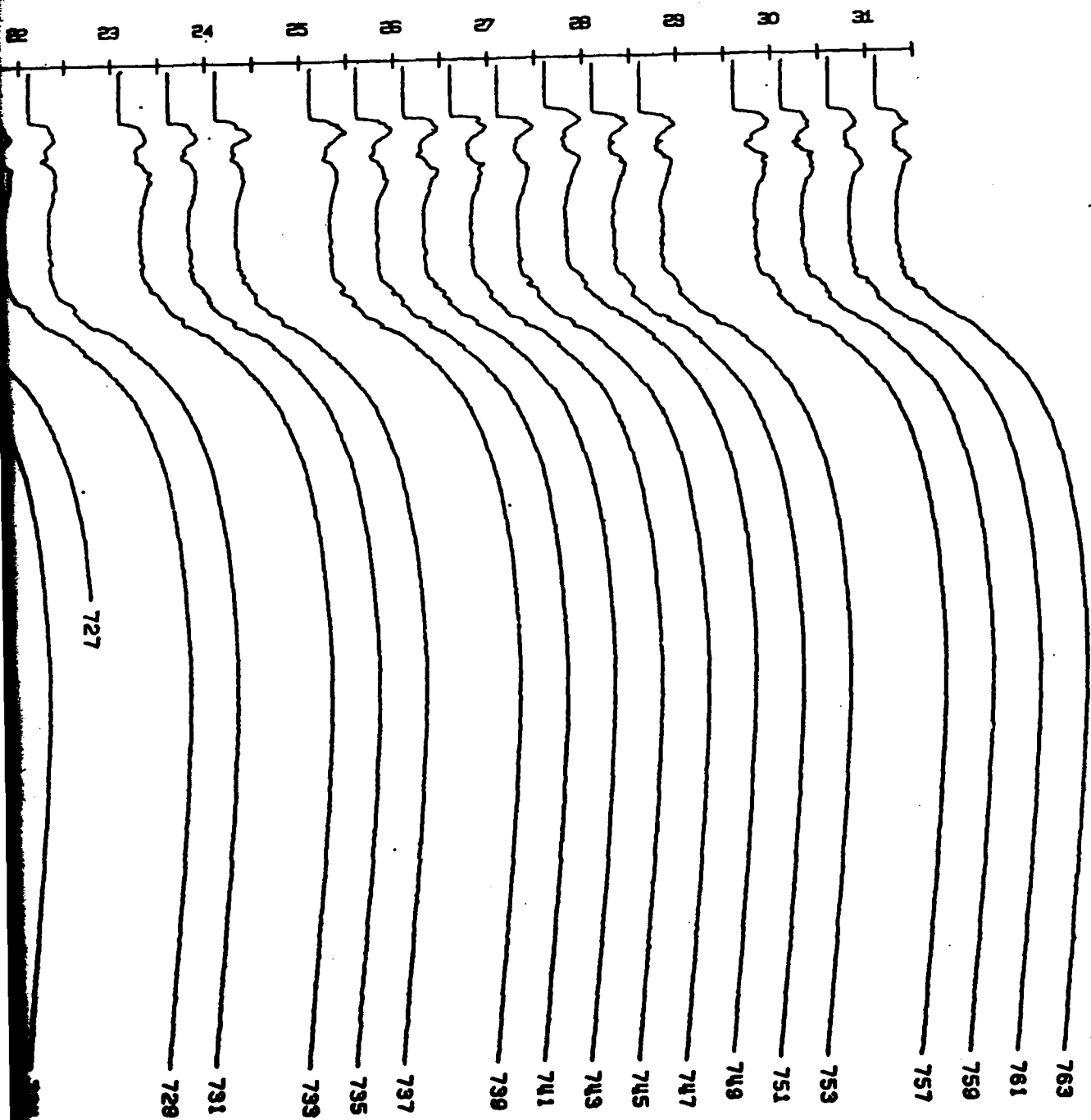
3

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (-1.8 DEG.C.)
- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION (0.5 DEG. C.) PER HALF DAY



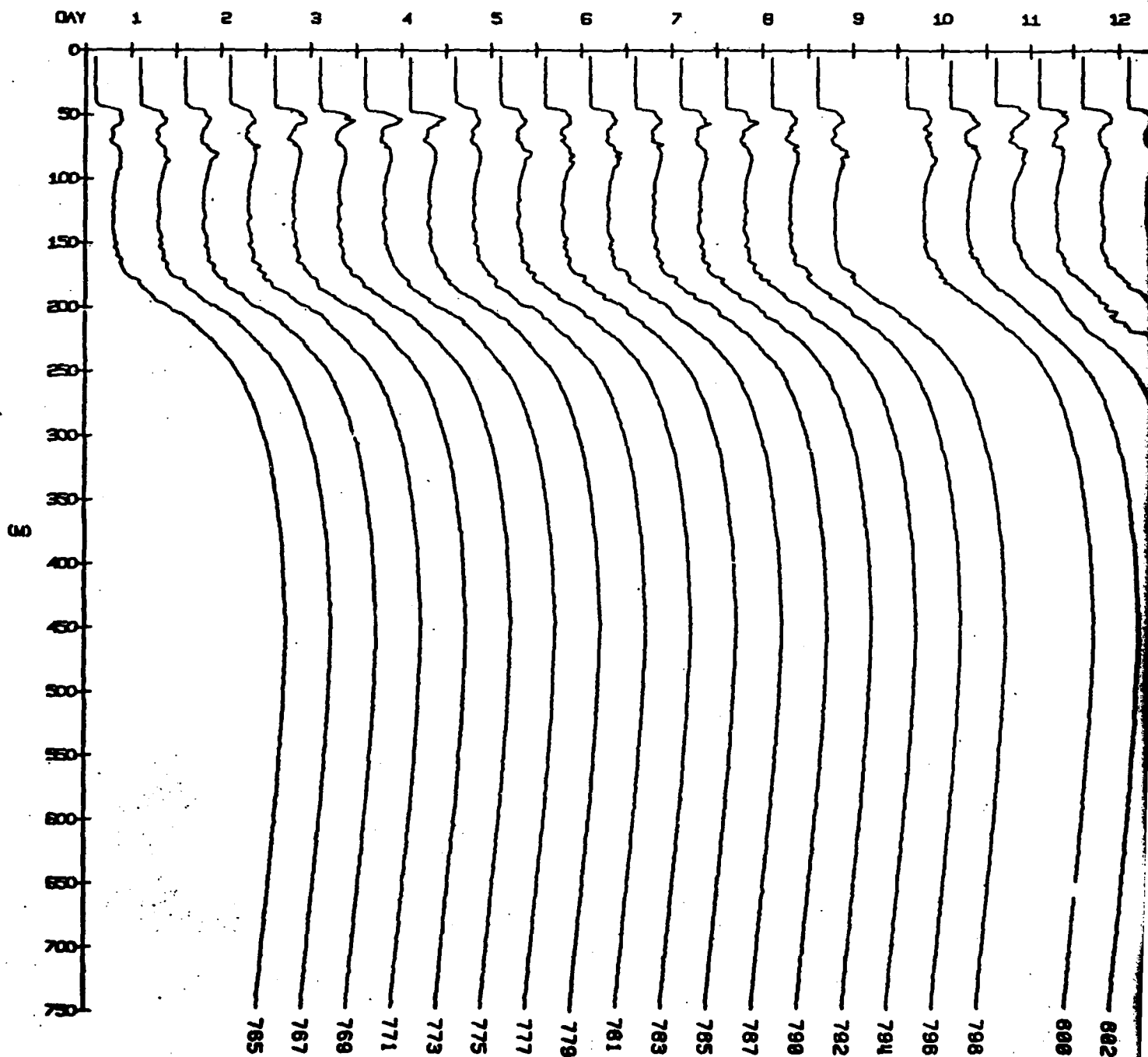
# TEMPERATURE PROFILES AT CAMP CARIBOU MAR 1, 1976 TO MAR 31, 1976



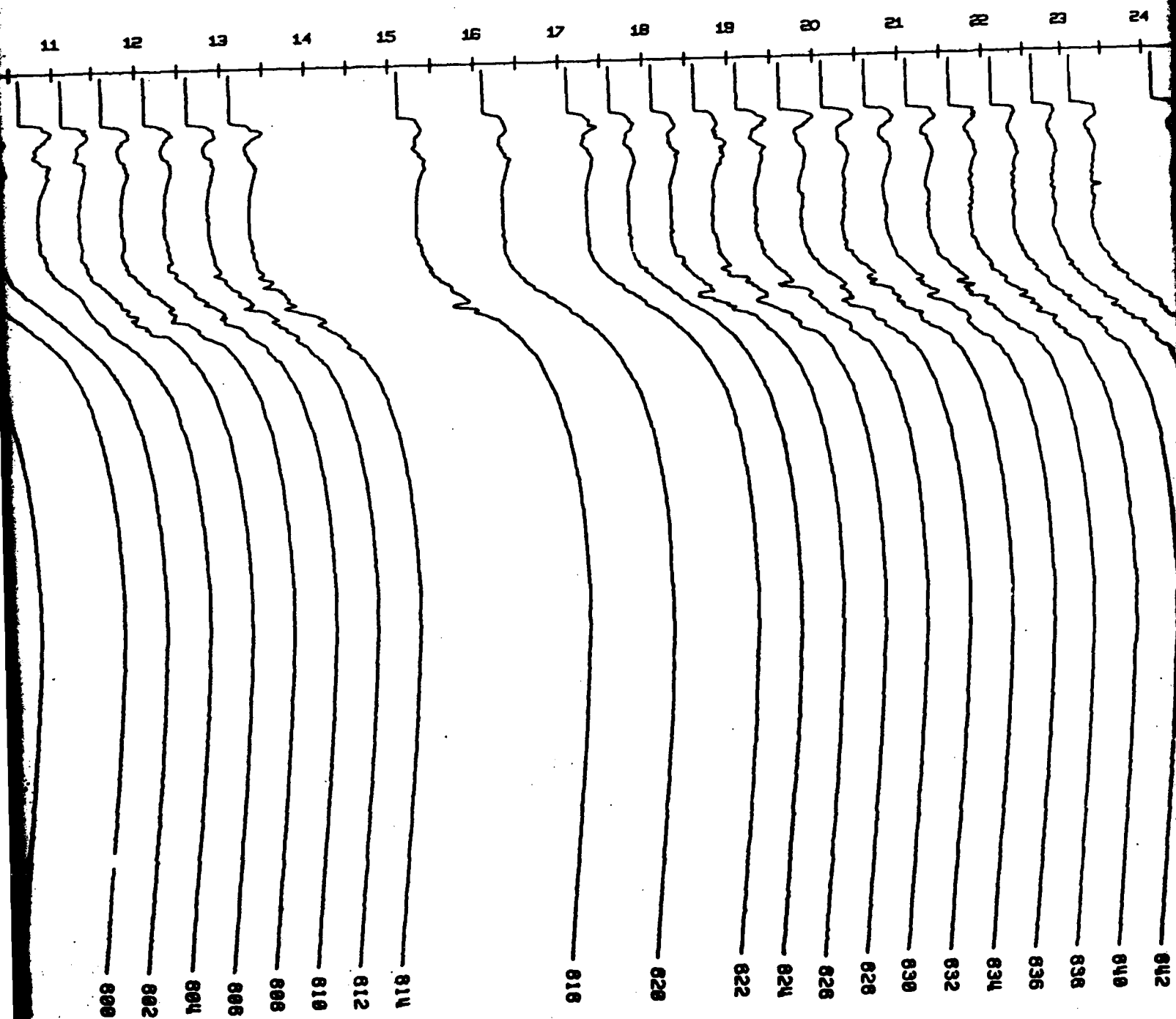




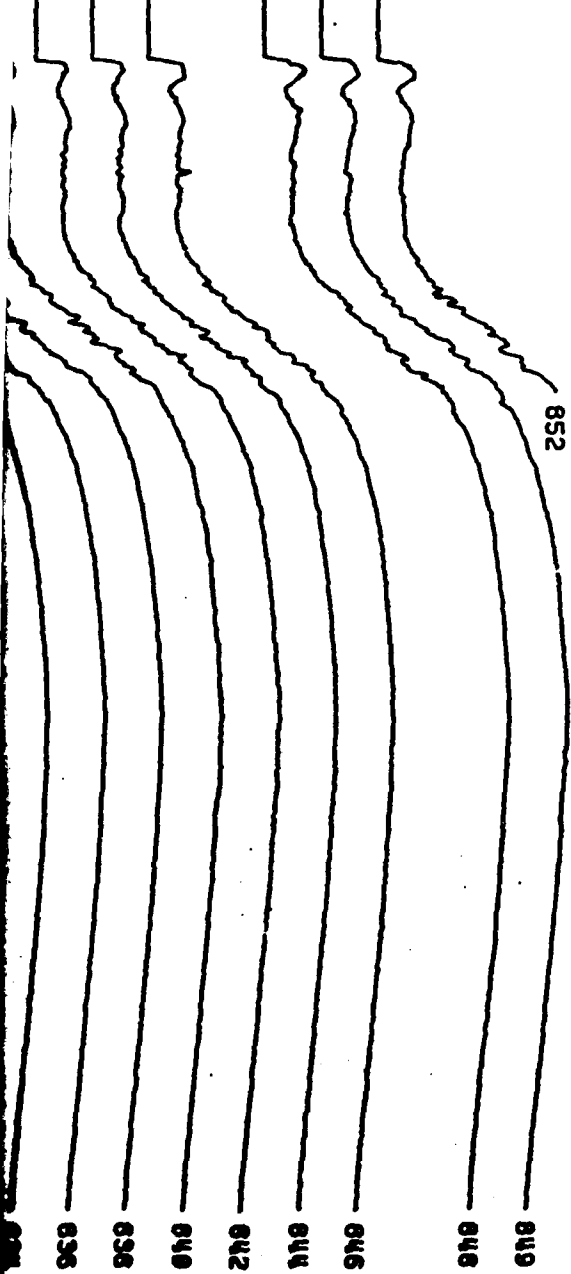
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- TEMPERATURE SCALE SHIFTS RIGHT 1 DIVISION ( 0.5 DEG. C.) PER HALF DAY



TEMPERATURE PROFILES AT CAMP CARIBOU  
APR 1, 1976 TO APR 30, 1976



22 23 24 25 26 27 28 29 30

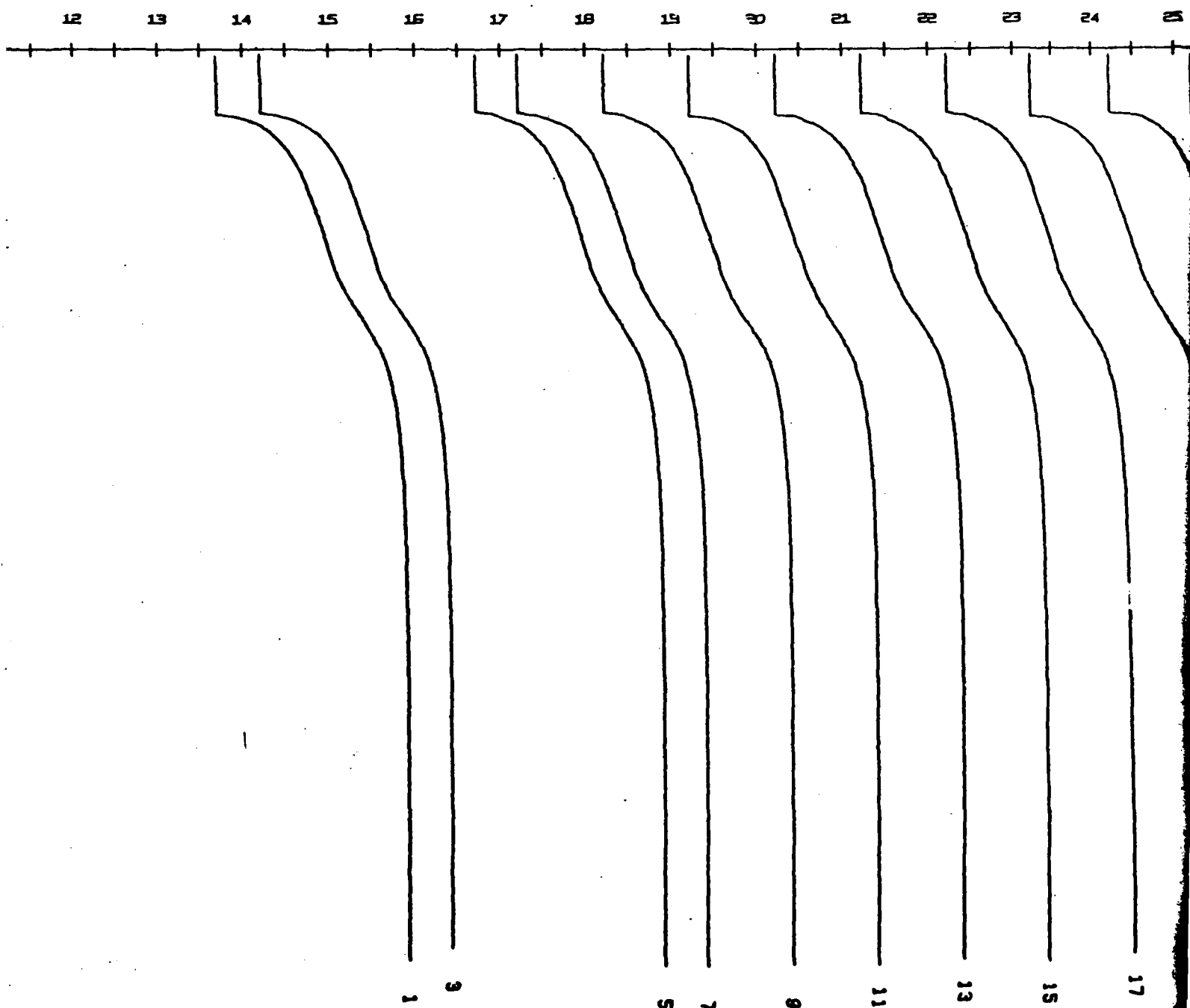


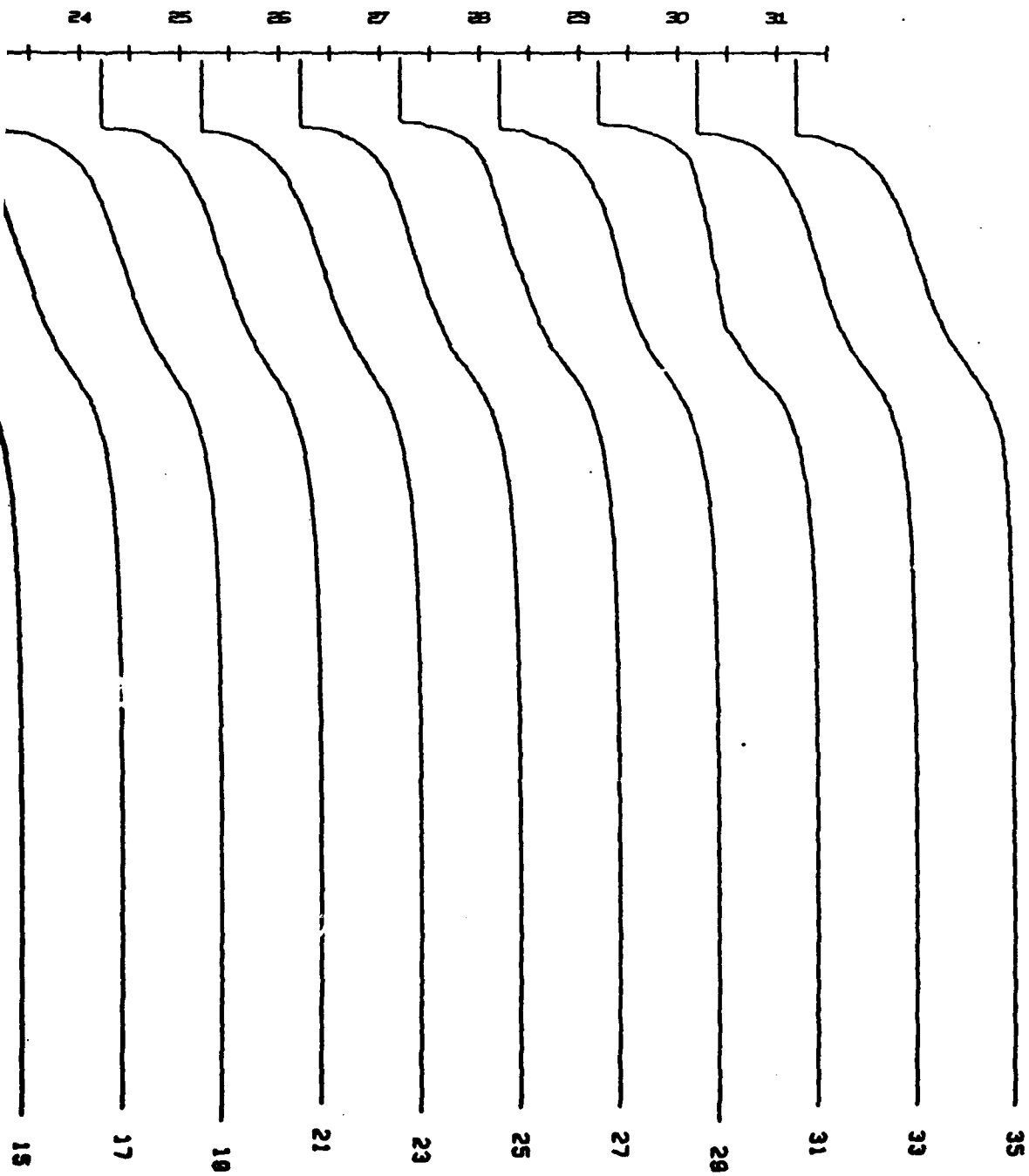
(1)

- 
- The graph template consists of a horizontal axis labeled 'DAY' and a vertical axis labeled 'COUNT'. The horizontal axis has tick marks labeled 1 through 12. The vertical axis has tick marks labeled 0, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 550, 600, 650, 700, and 750.



SALINITY PROFILES AT CAMP CARIBOU  
MAY 1, 1975 TO MAY 31, 1975

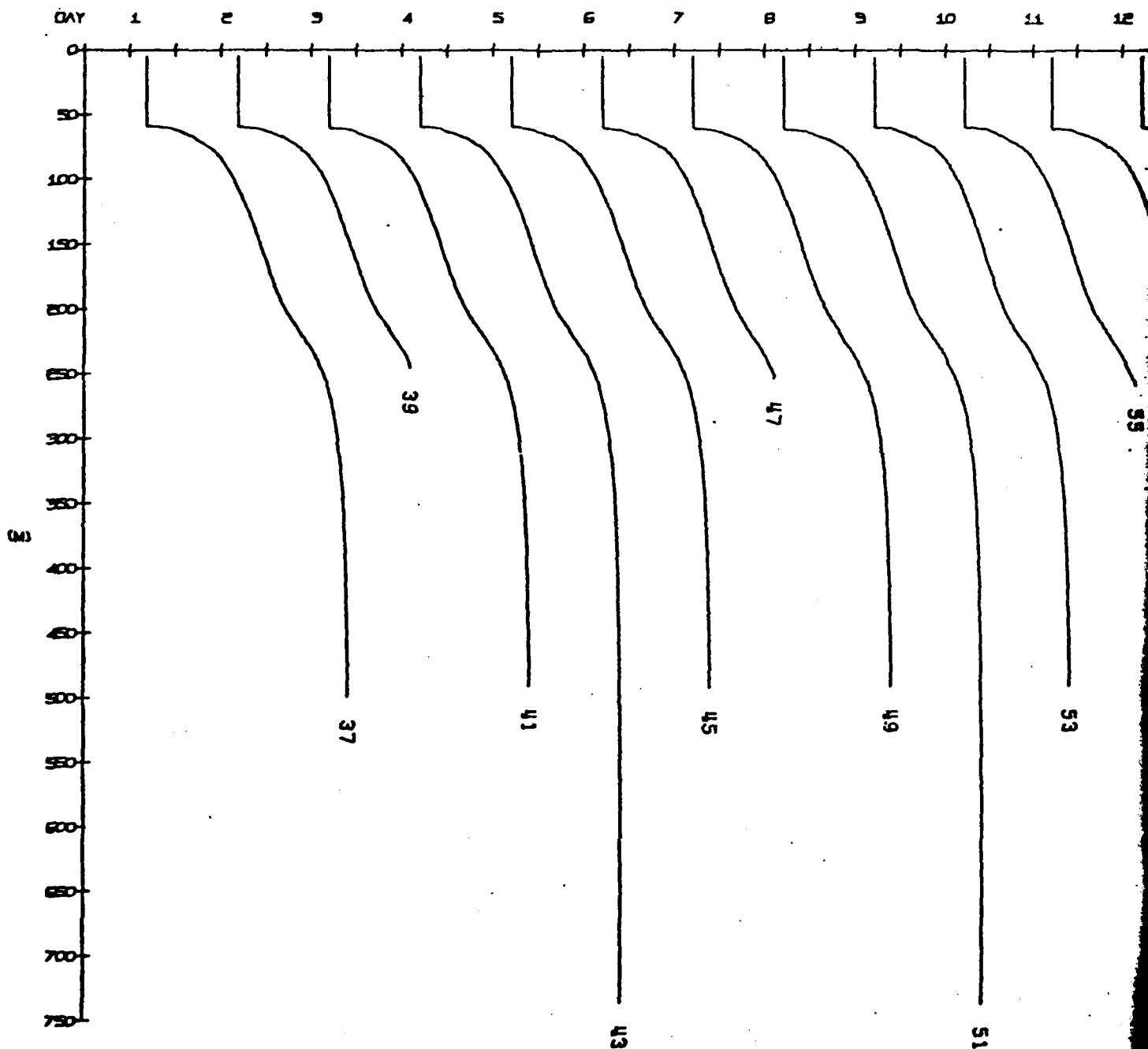




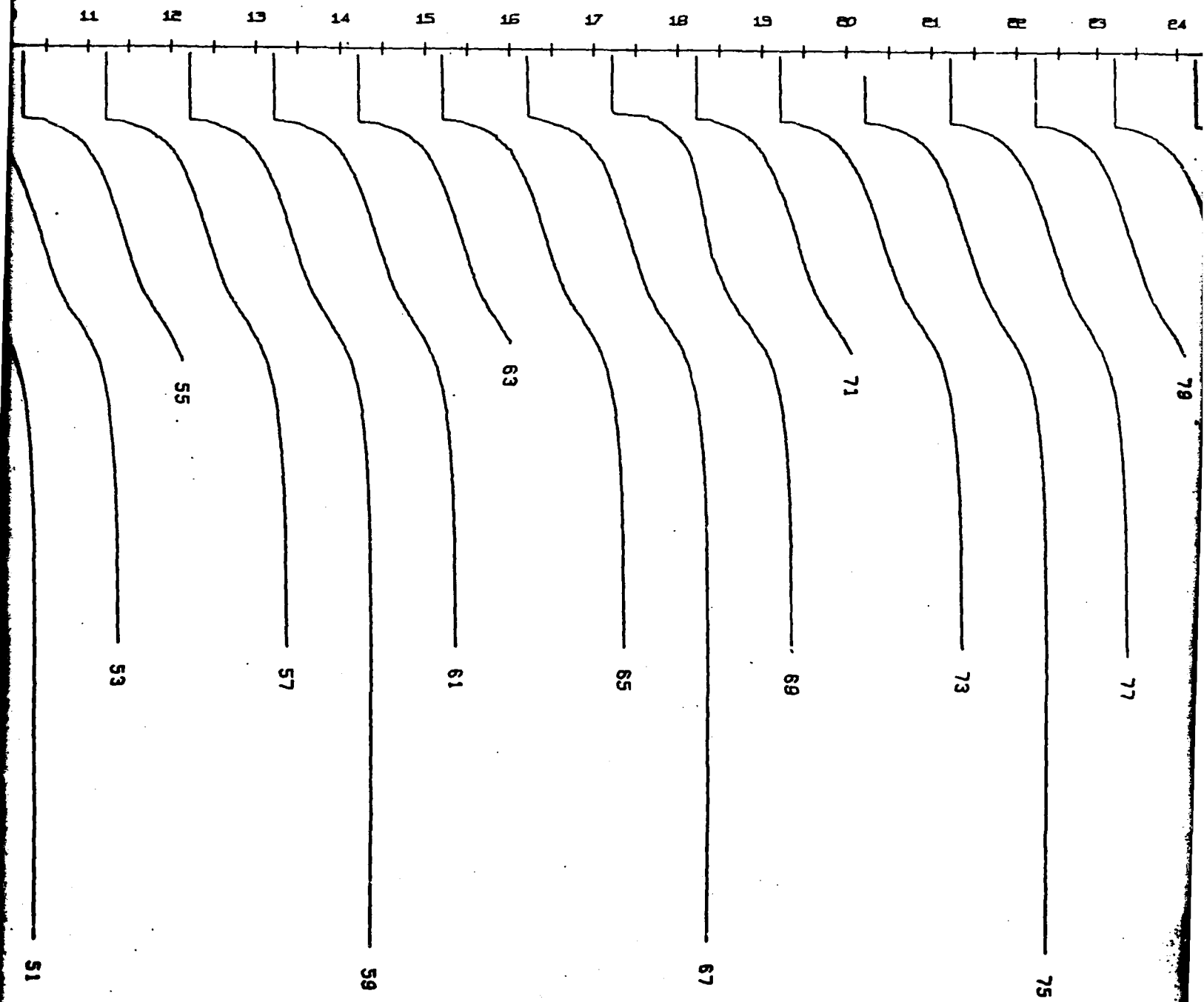
2

SAL

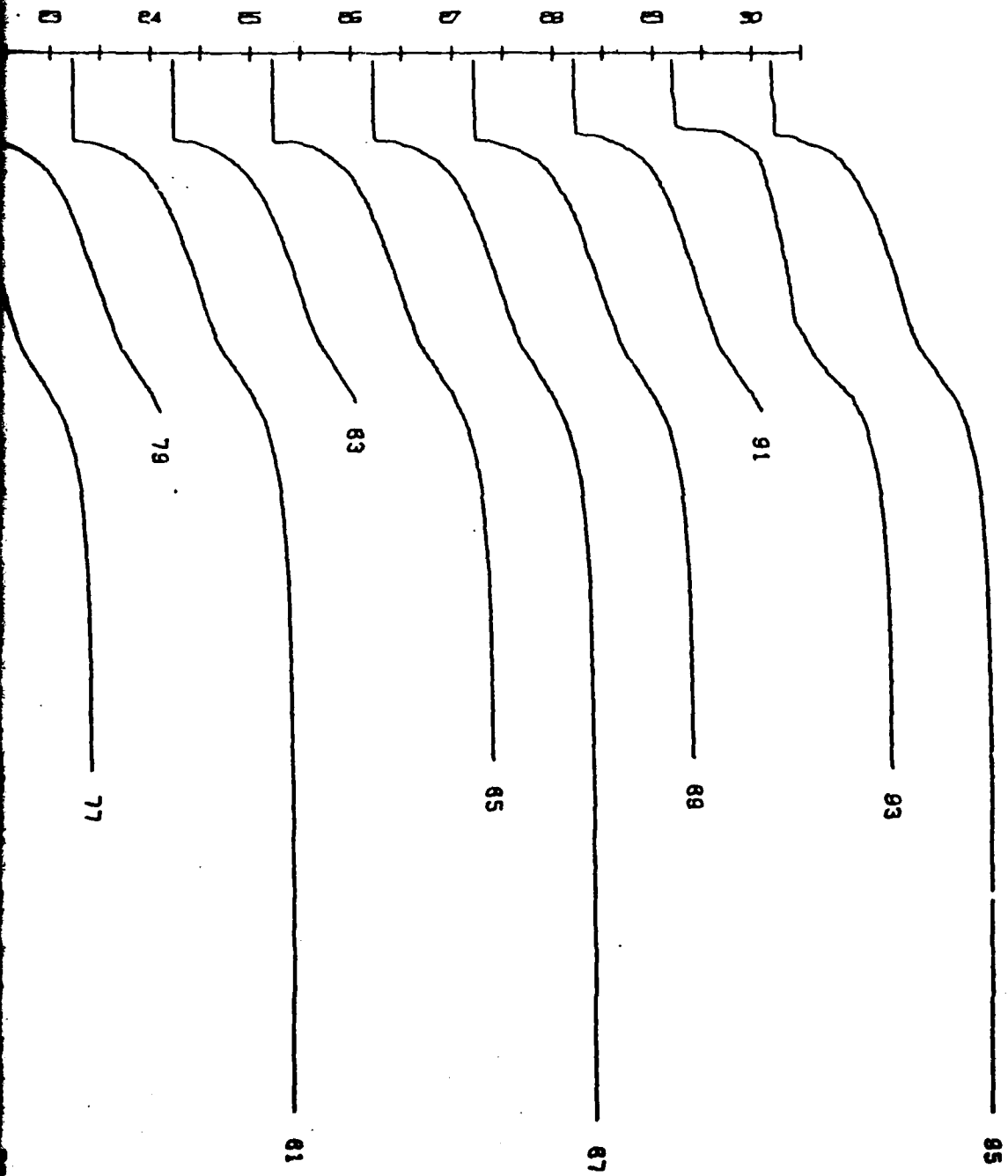
- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



# SALINITY PROFILES AT CAMP CARIBOU JUN 1, 1975 TO JUN 30, 1975

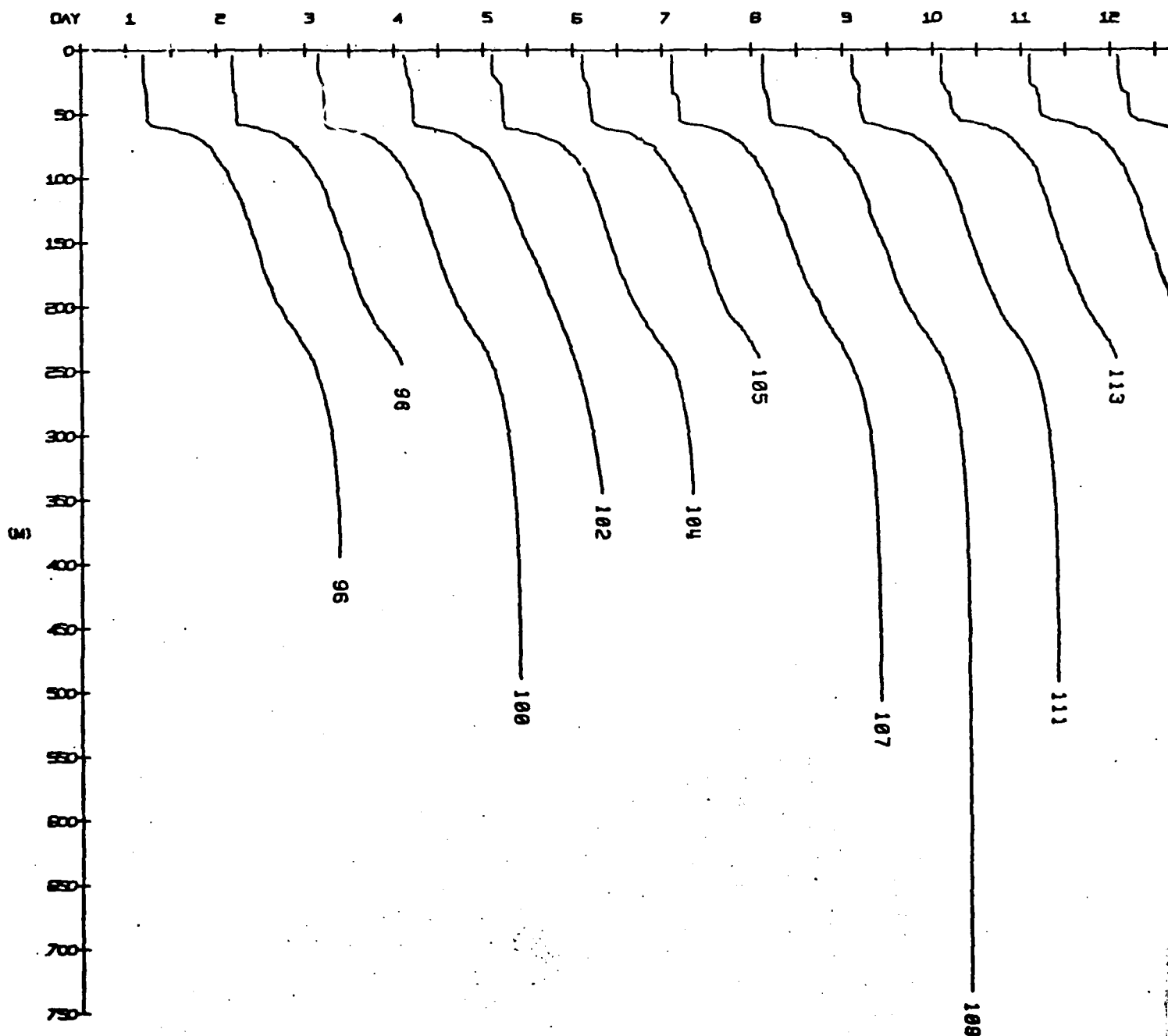




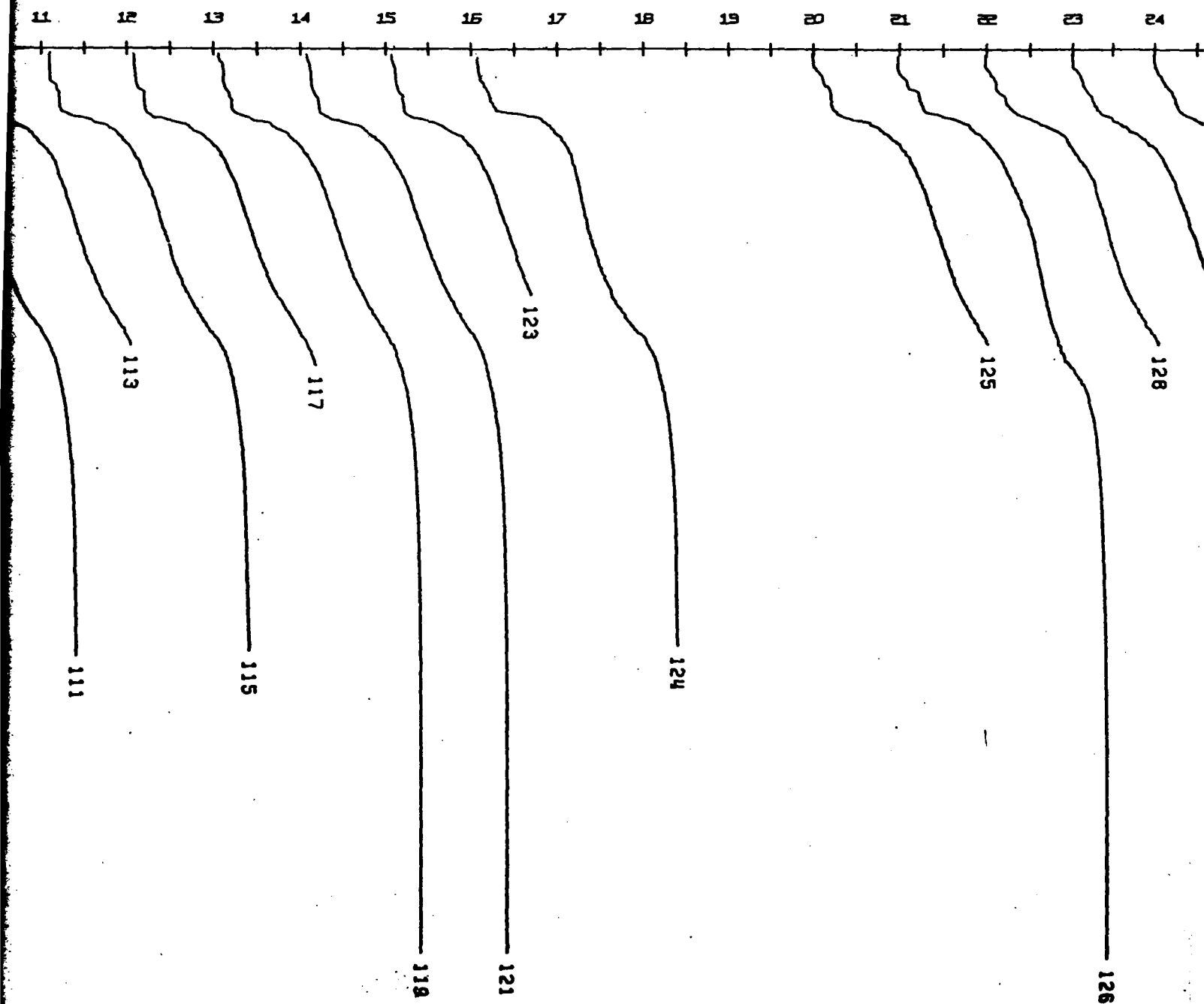


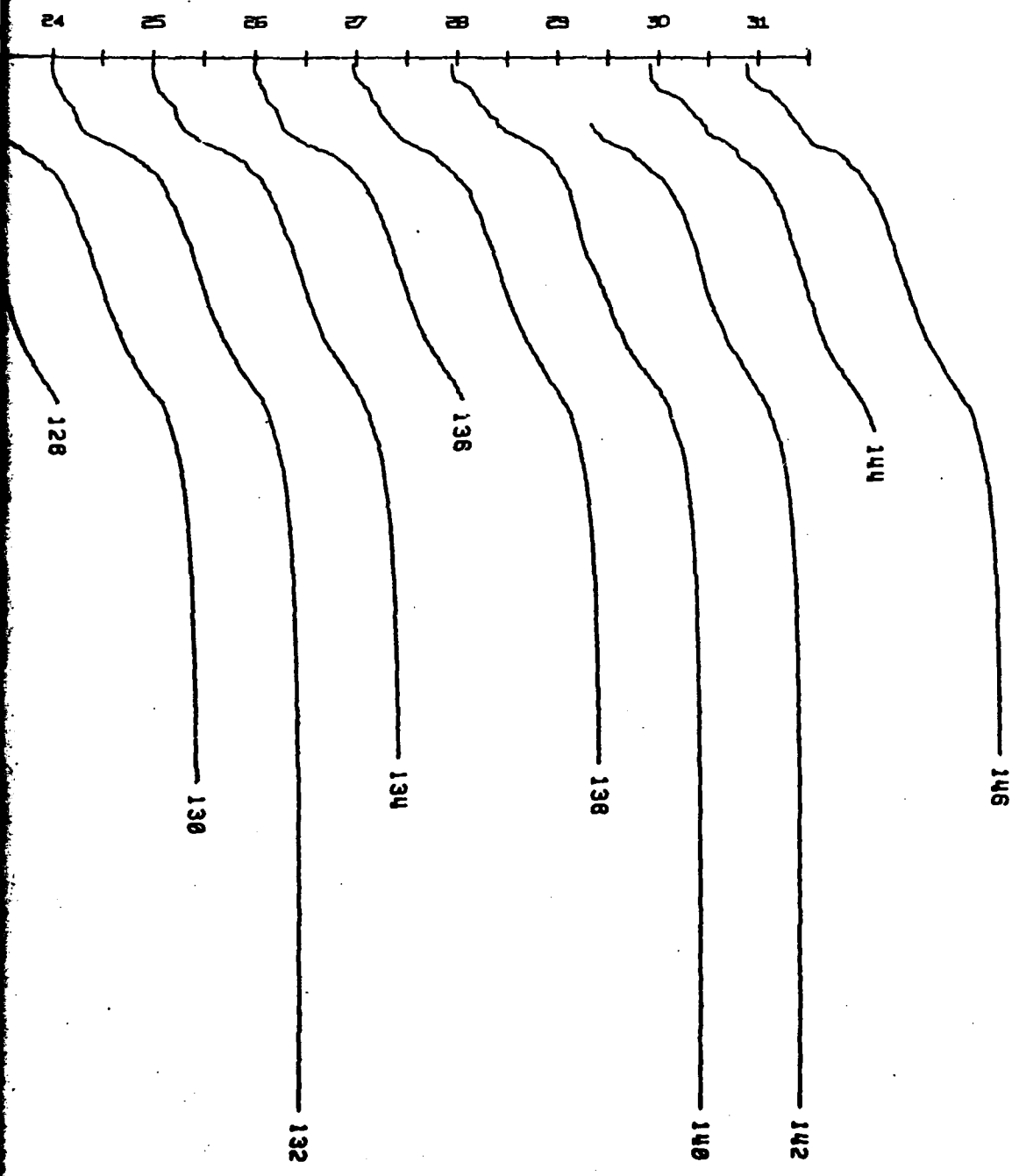
21

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



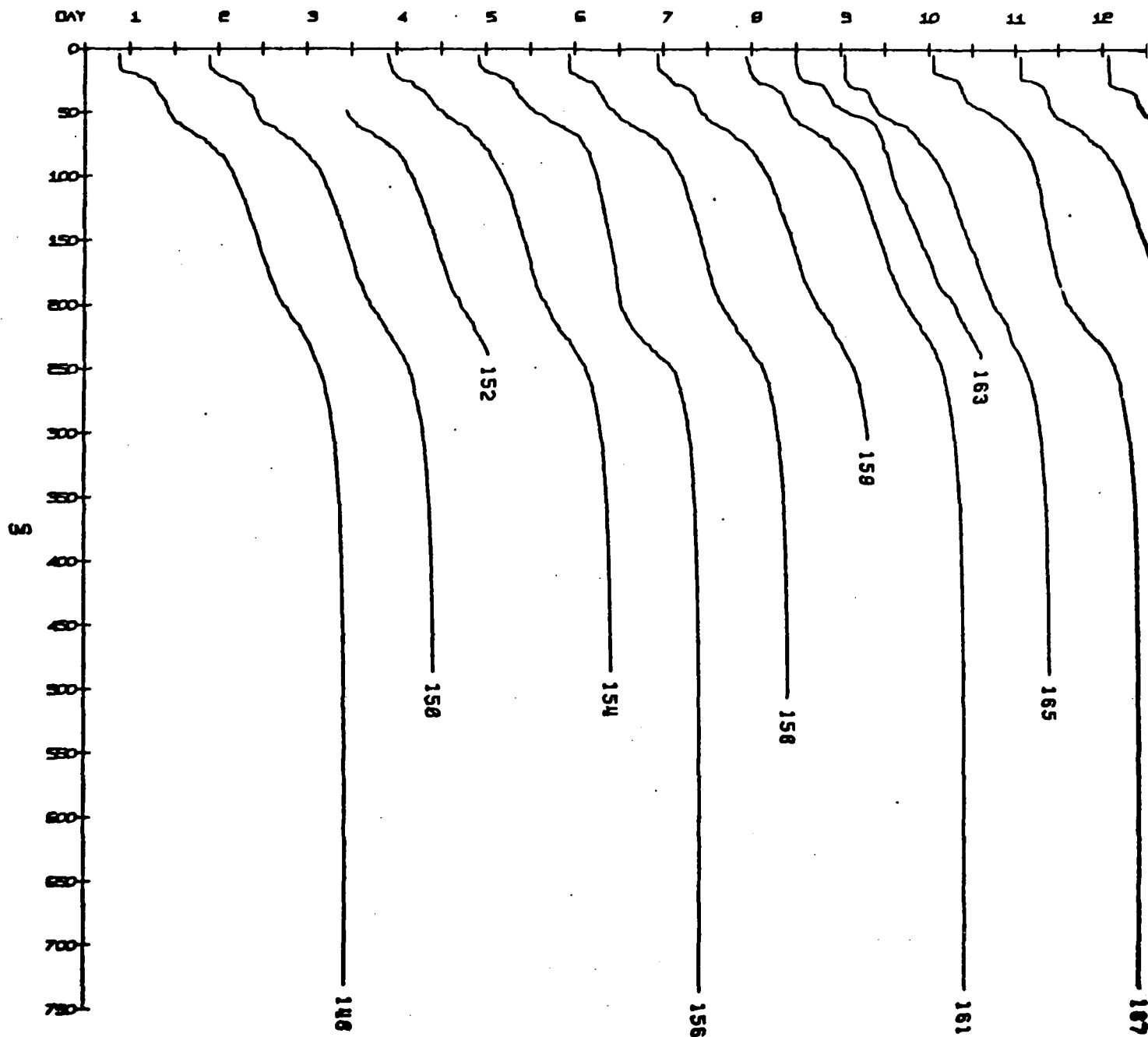
SALINITY PROFILES AT CAMP CARIBOU  
JUL 1, 1975 TO JUL 31, 1975



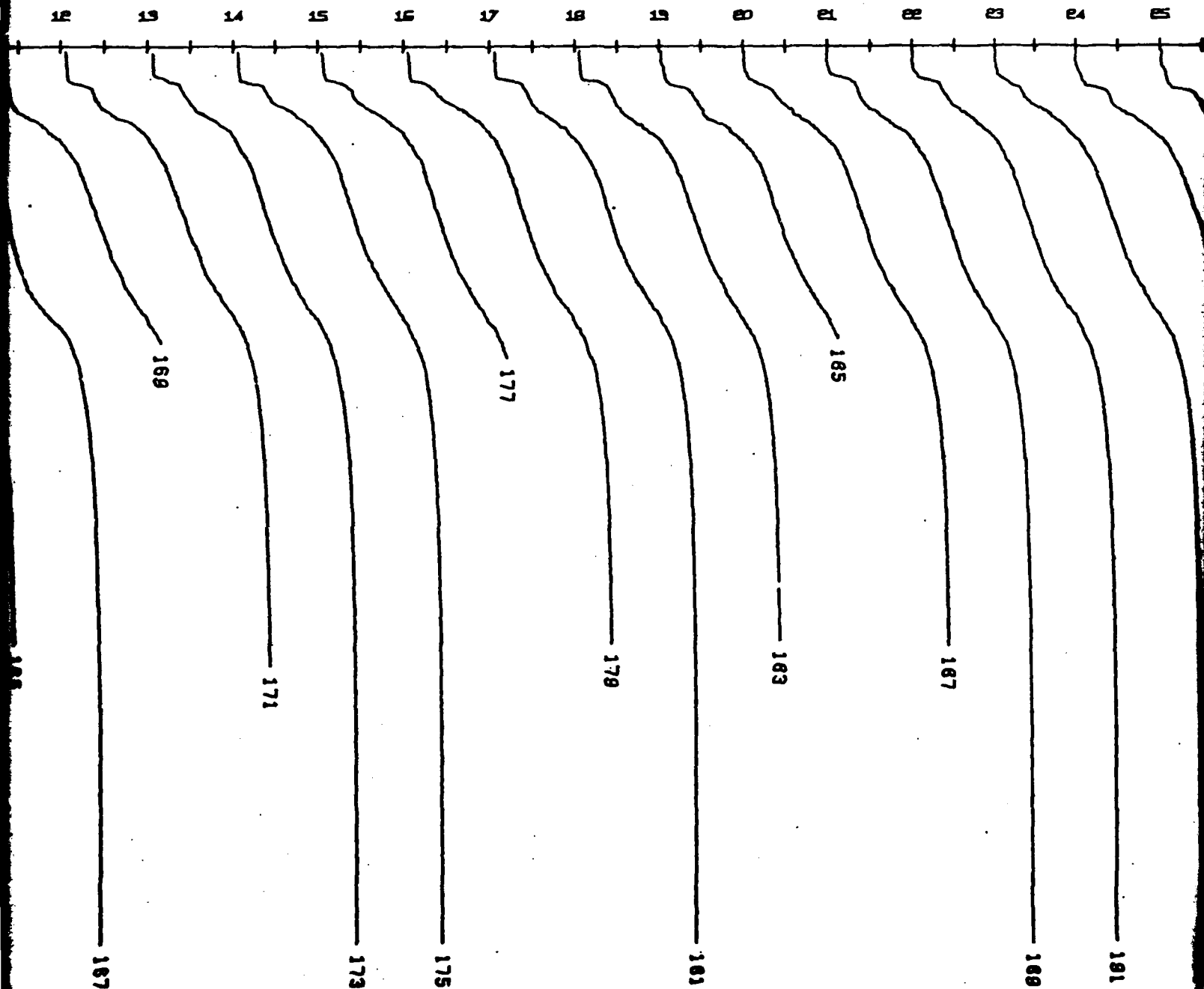


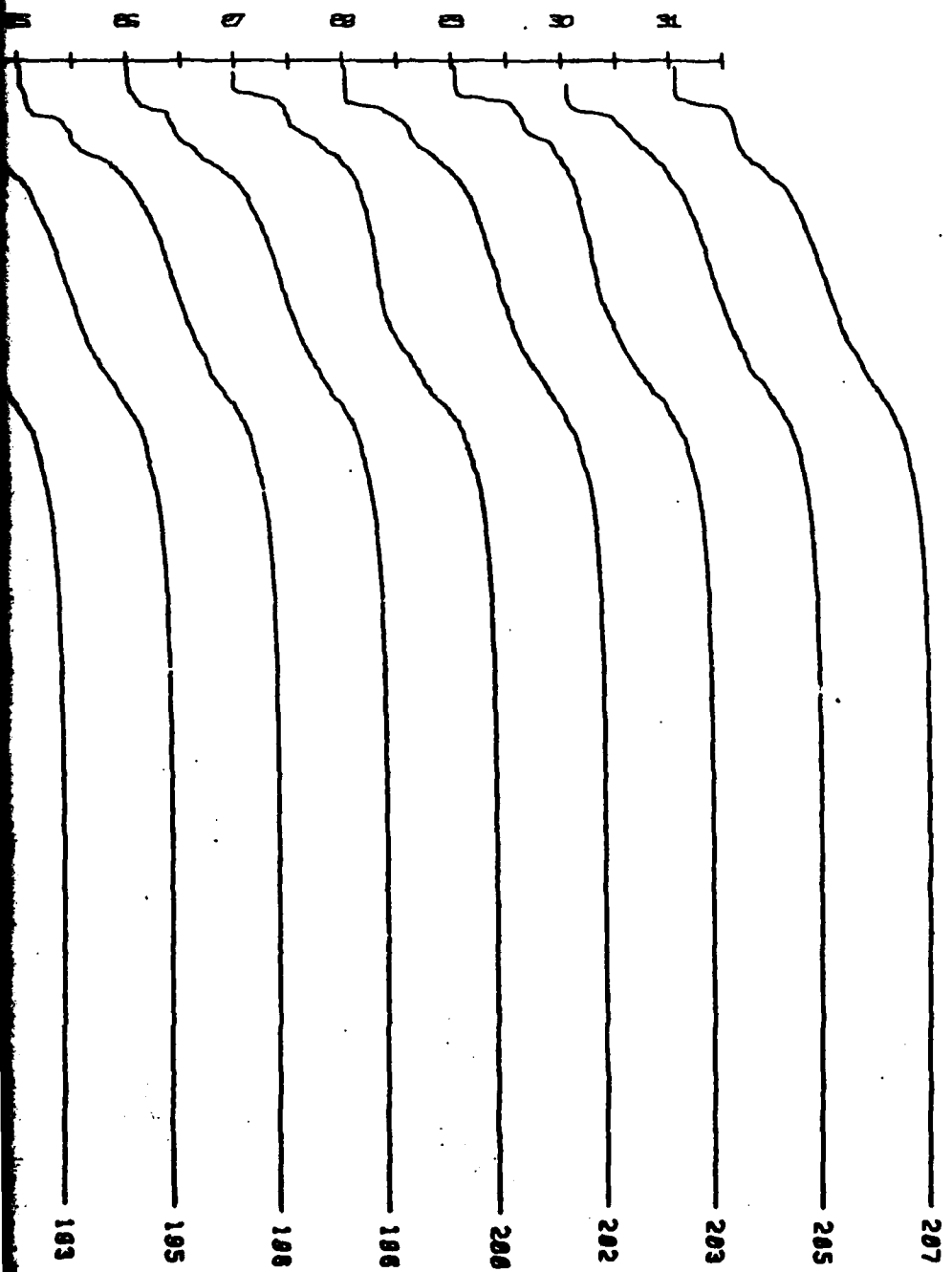
3

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



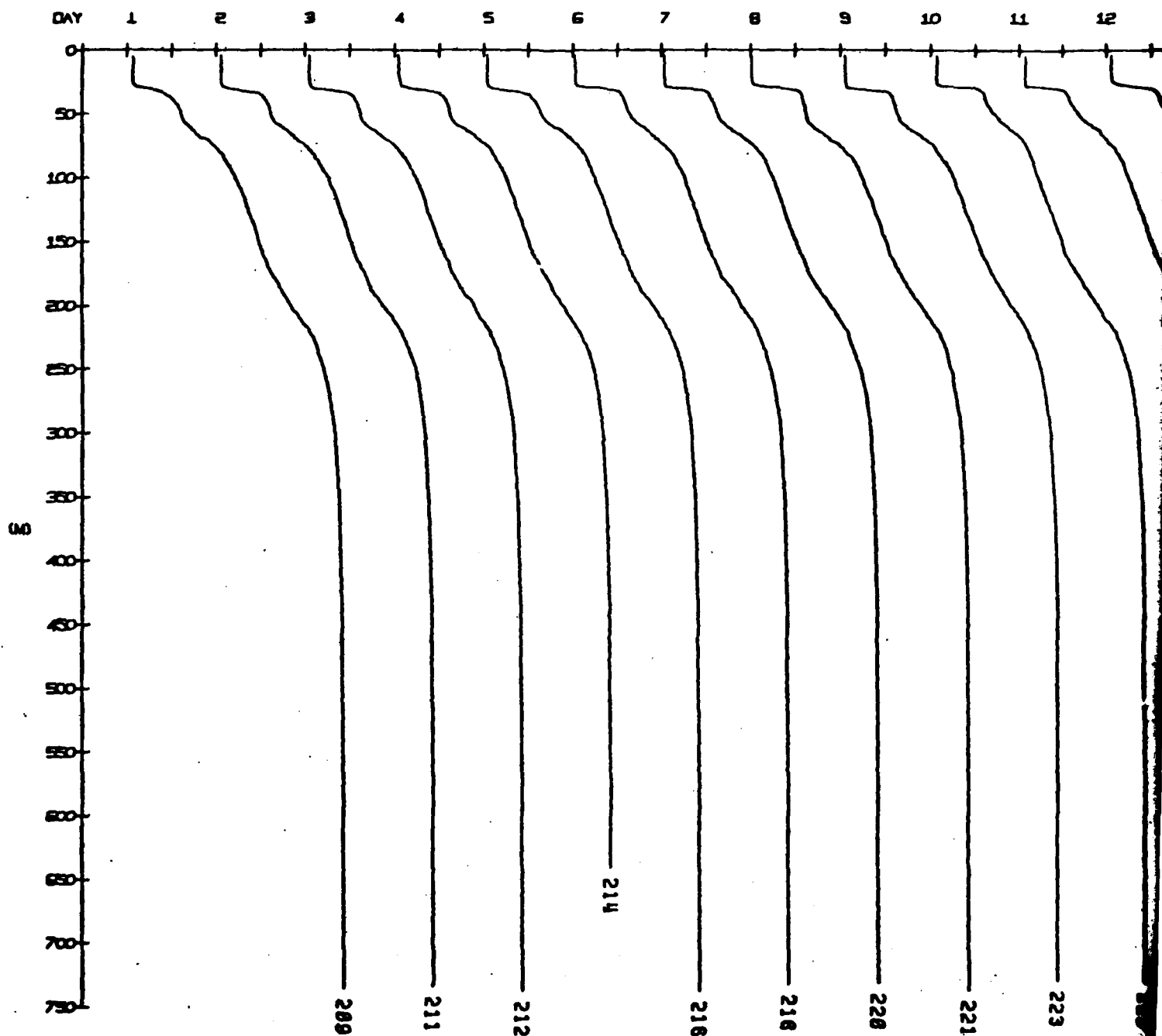
SALINITY PROFILES AT CAMP CARIBOU  
AUG 1, 1975 TO AUG 31, 1975





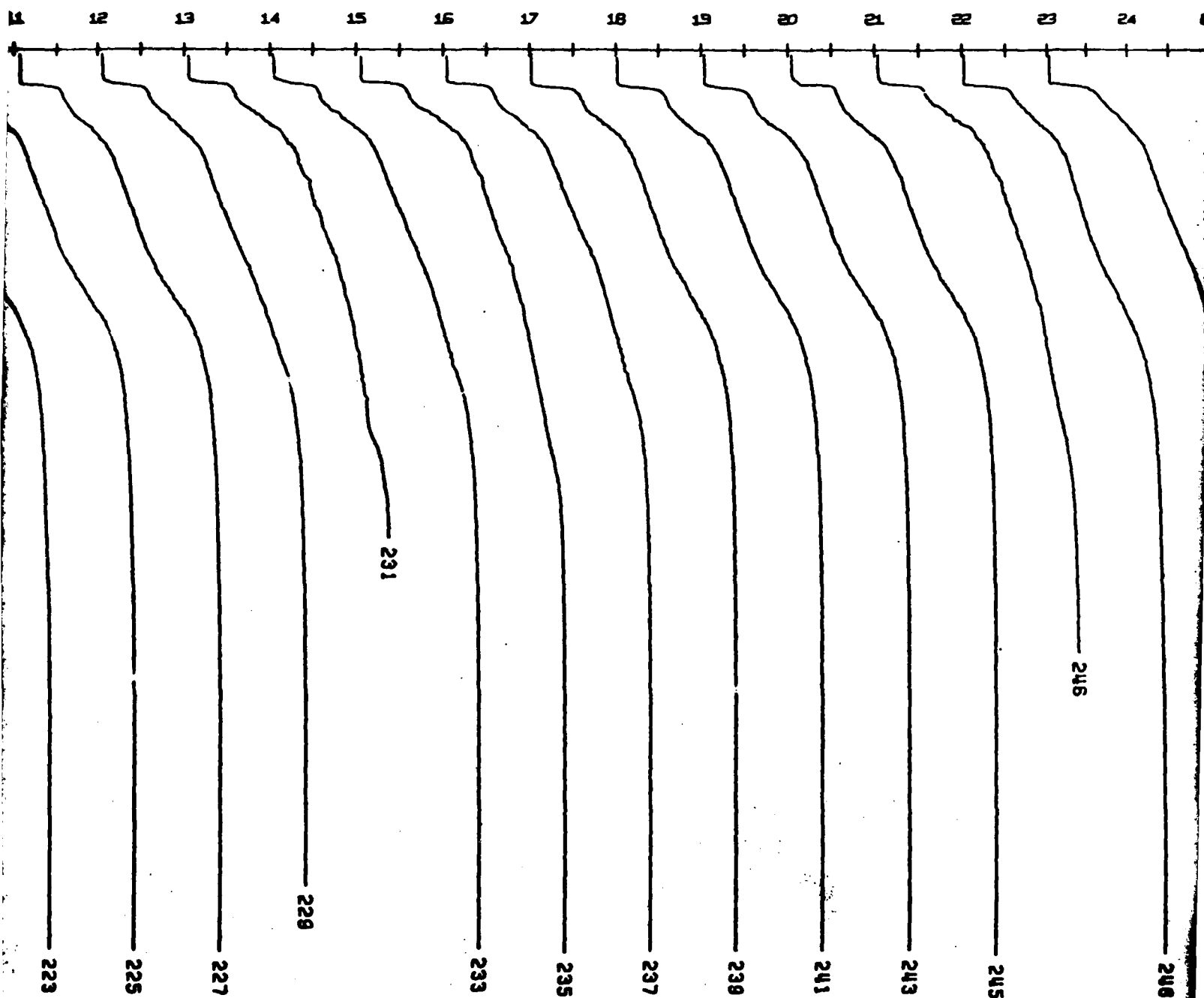
SALINITY

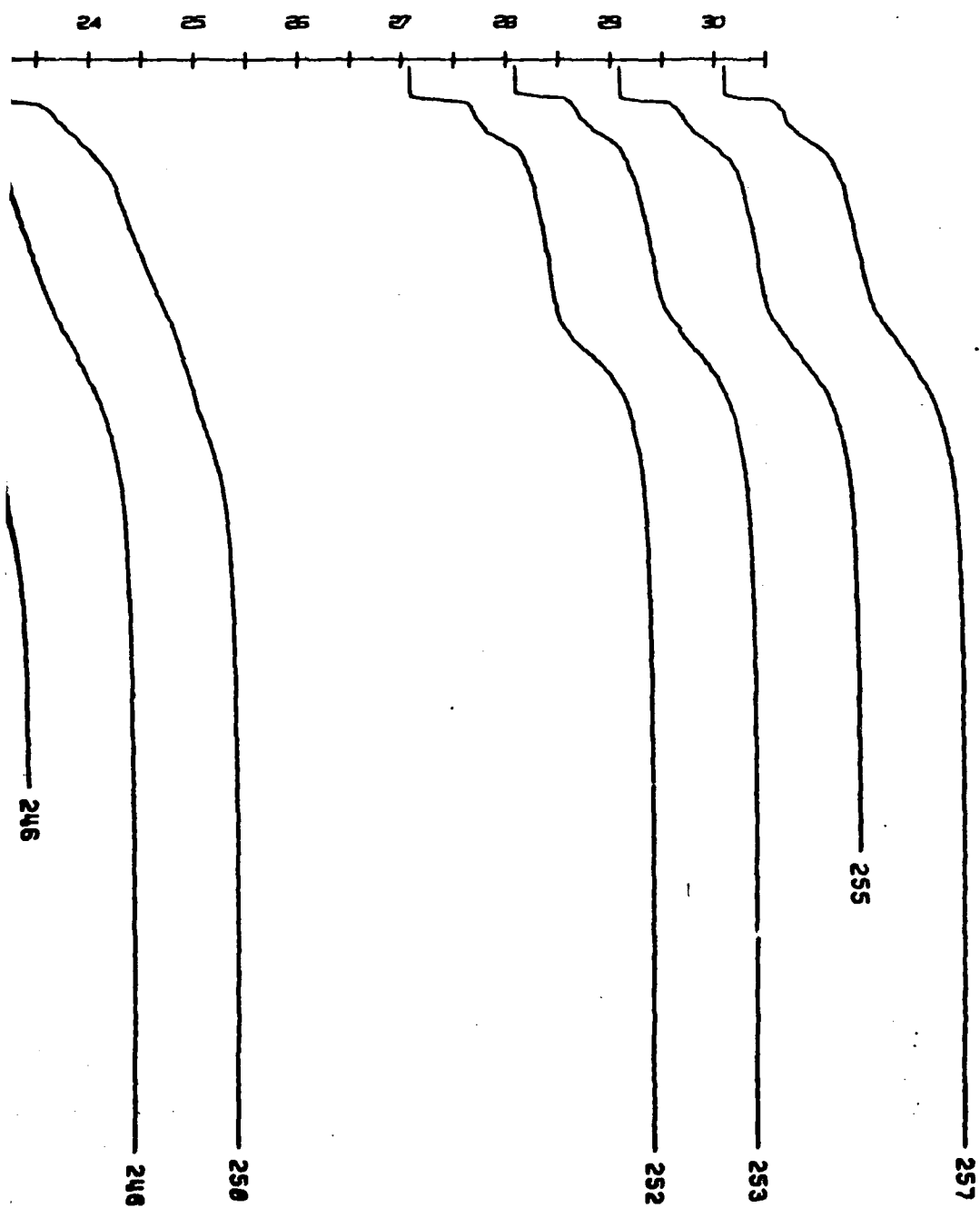
- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



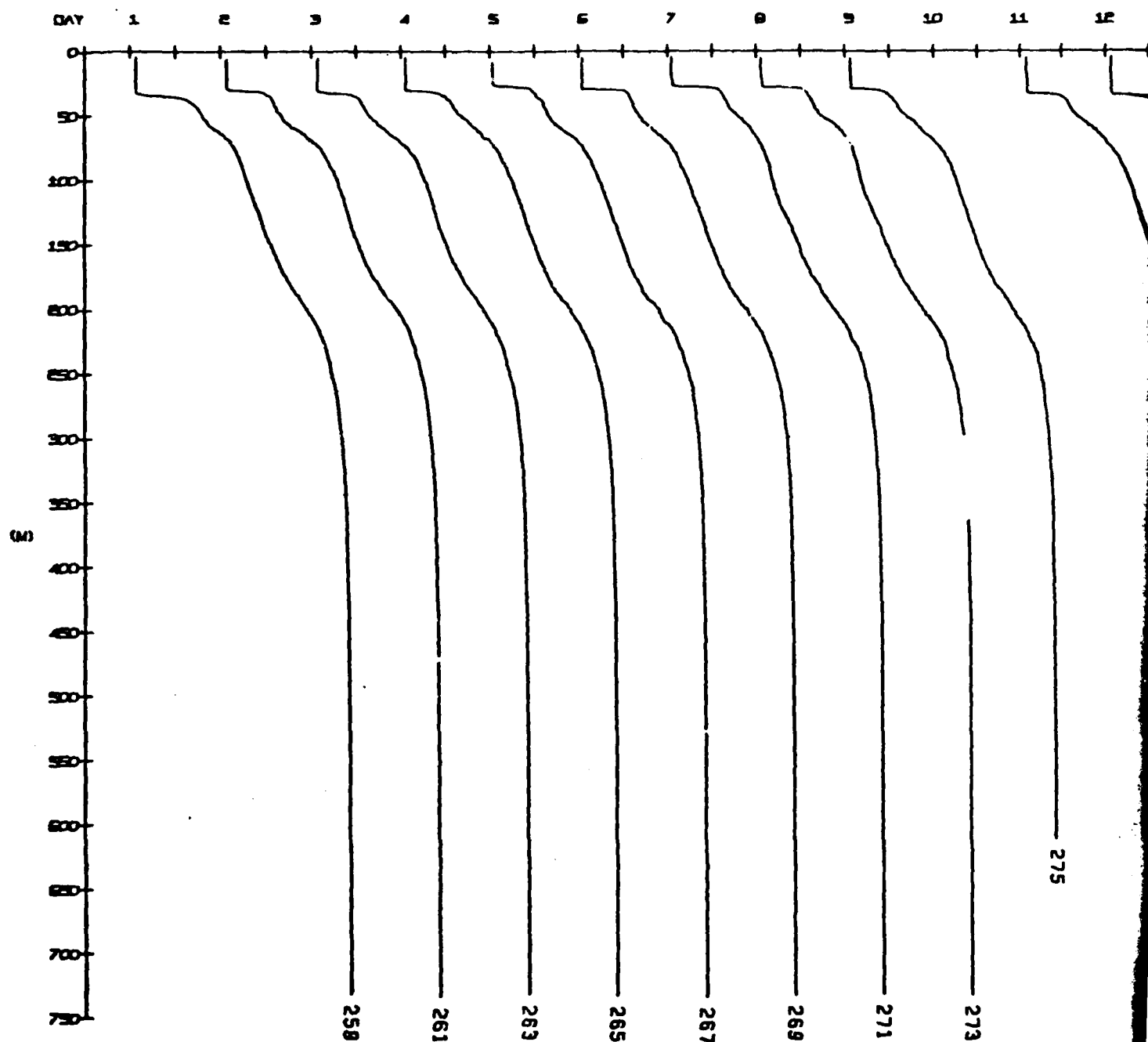


SALINITY PROFILES AT CAMP CARIBOU  
SEP 1, 1975 TO SEP 30, 1975

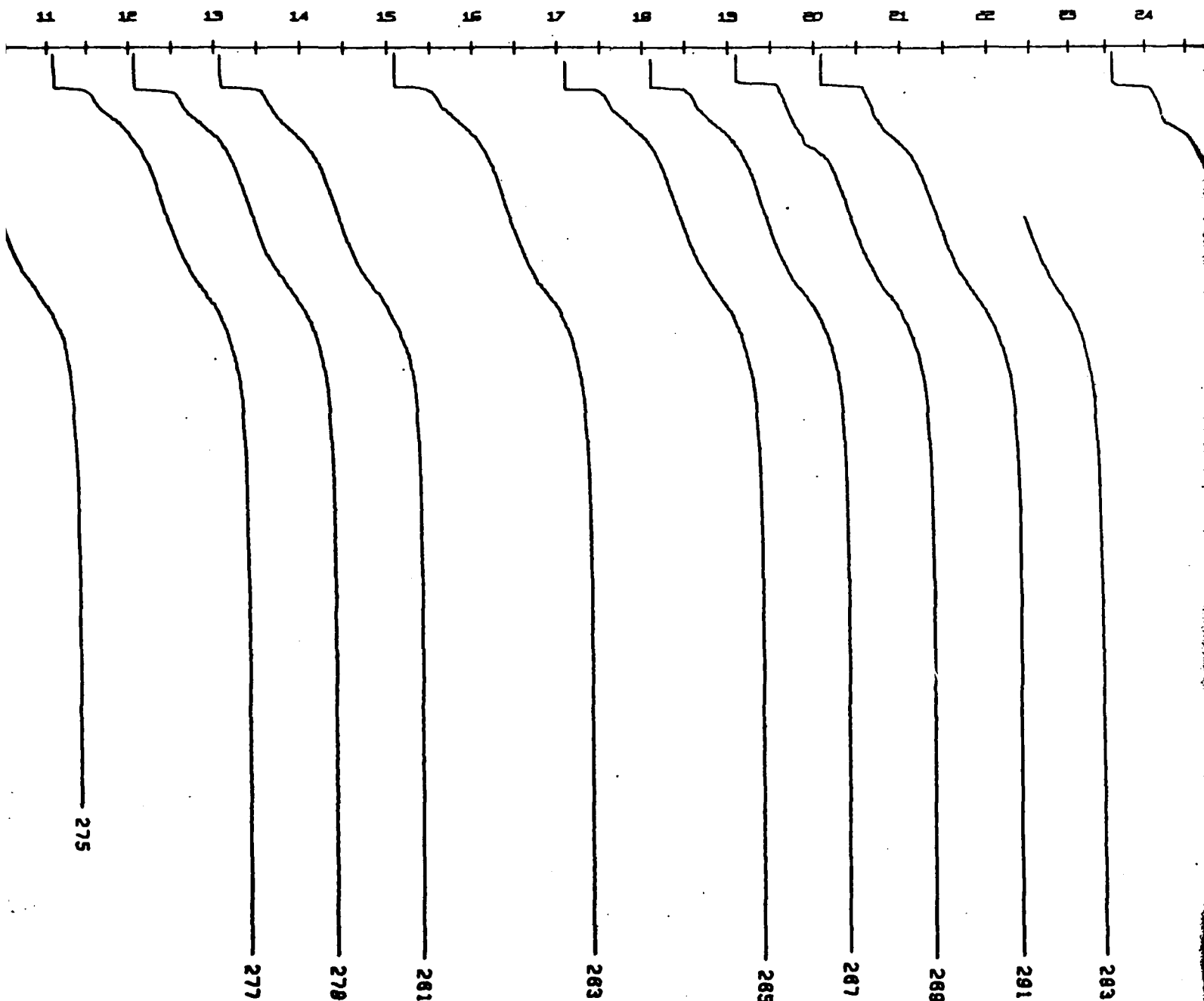


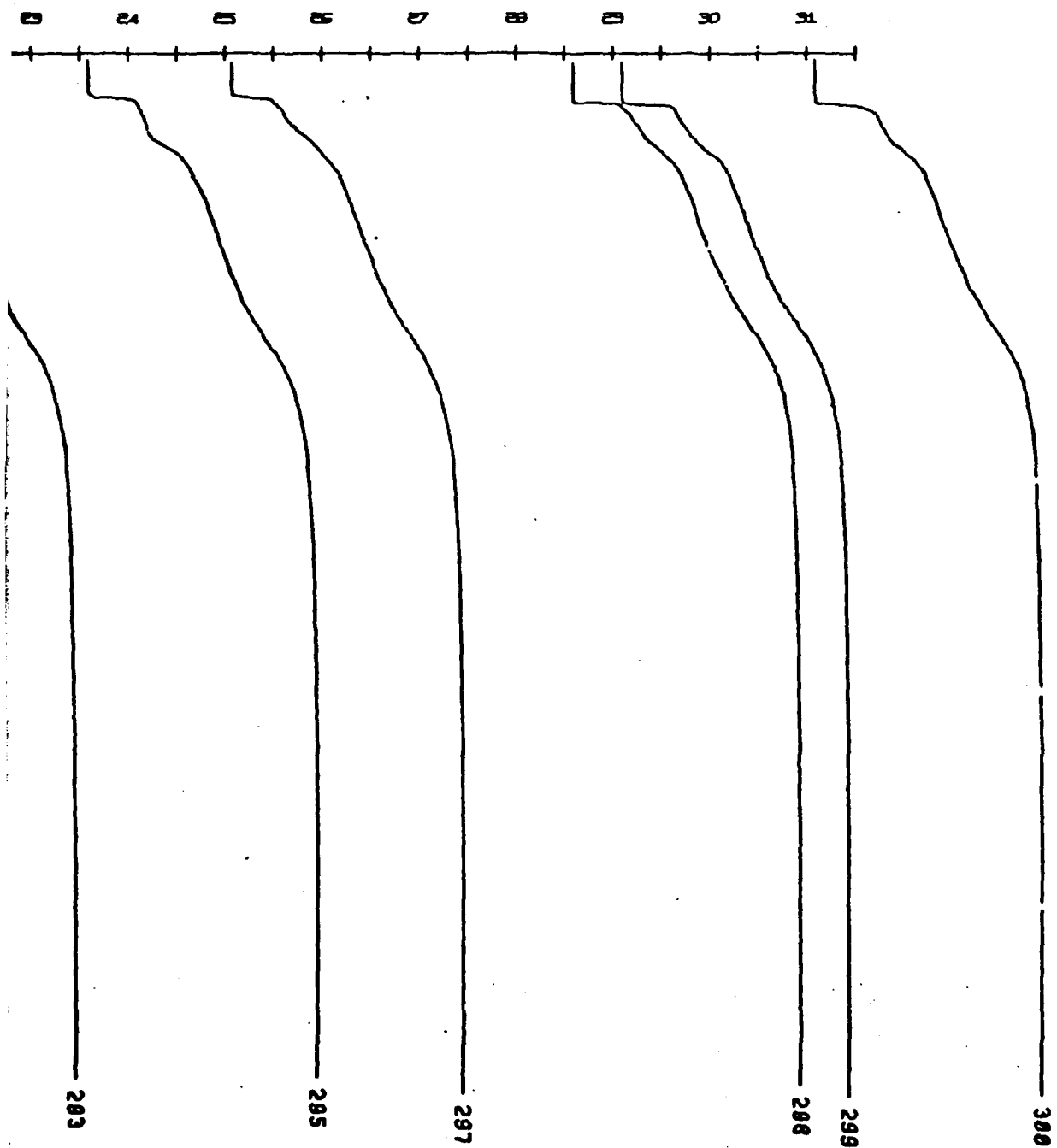


- 5



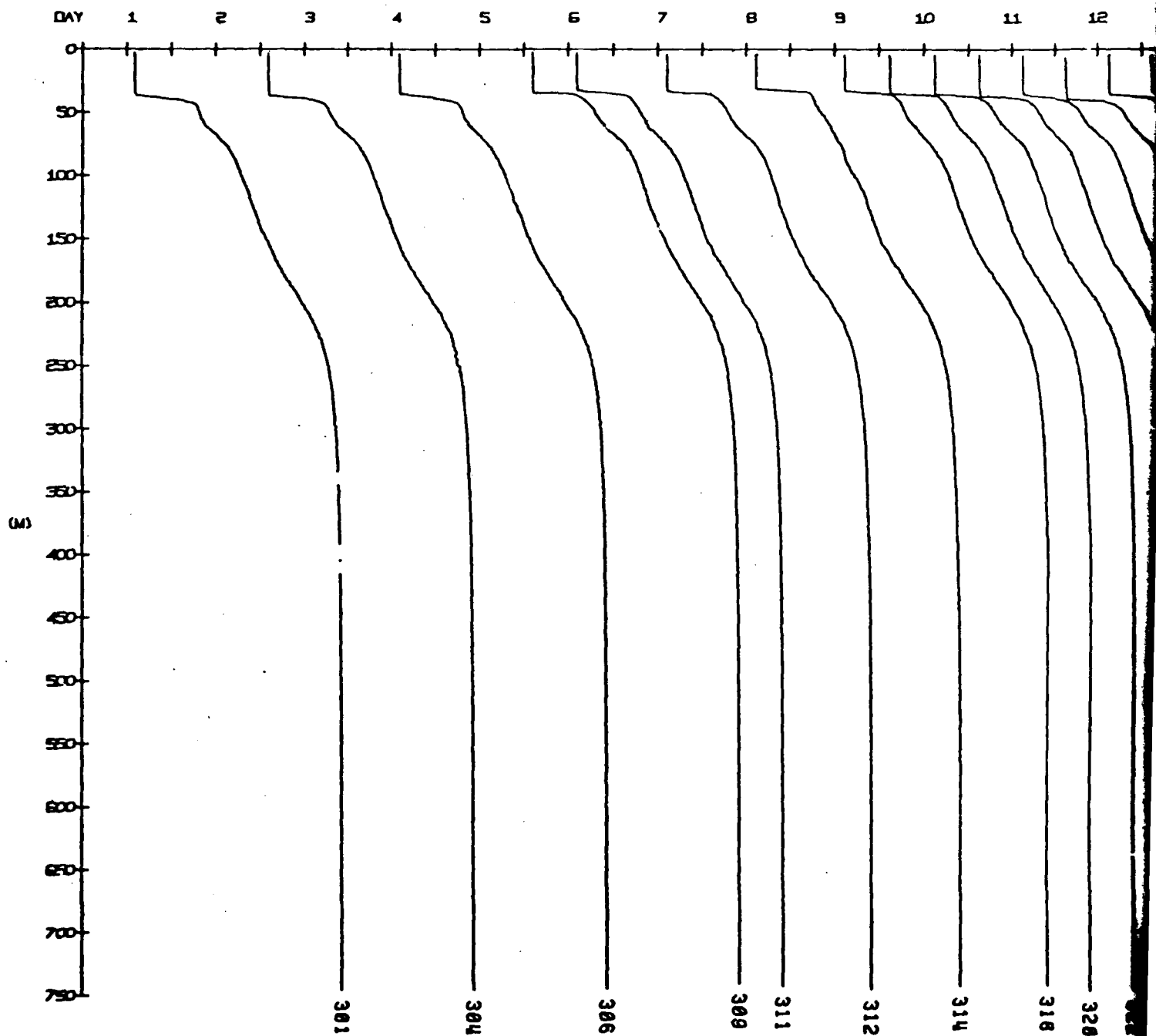
SALINITY PROFILES AT CAMP CARIBOU  
OCT 1, 1975 TO OCT 31, 1975



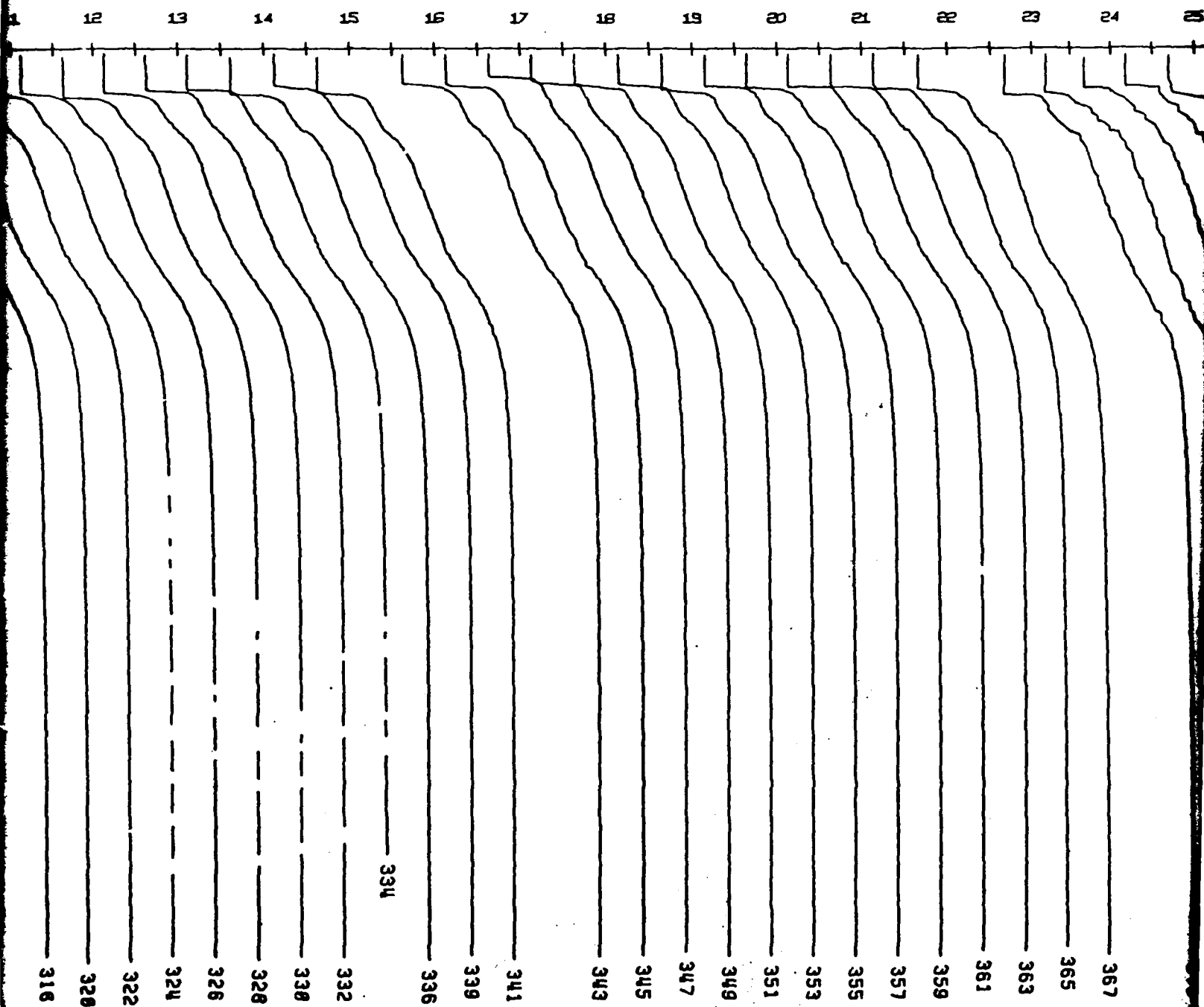


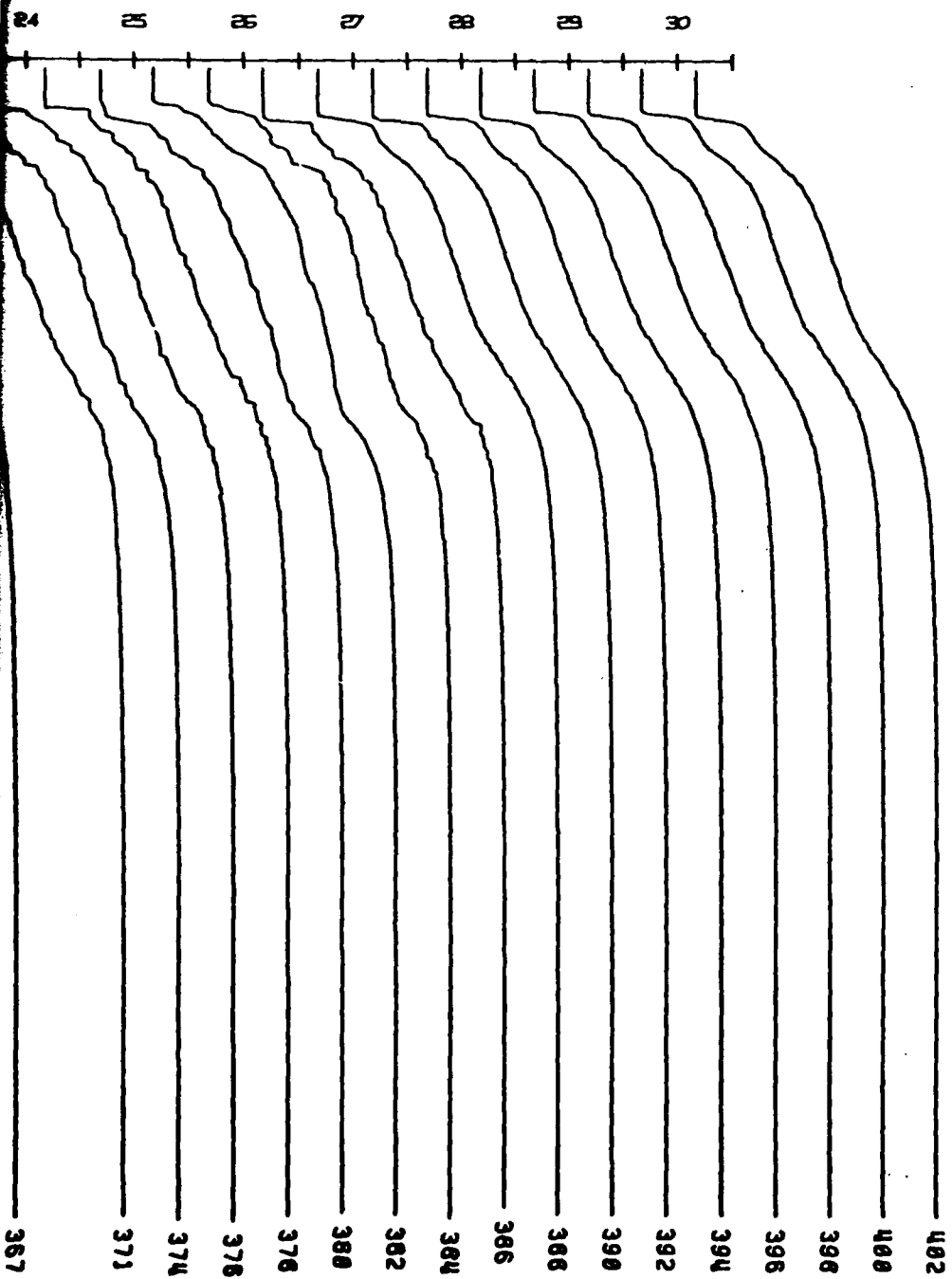
# SALINITY

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



SALINITY PROFILES AT CAMP CARIBOU  
NOV 1, 1975 TO NOV 30, 1975

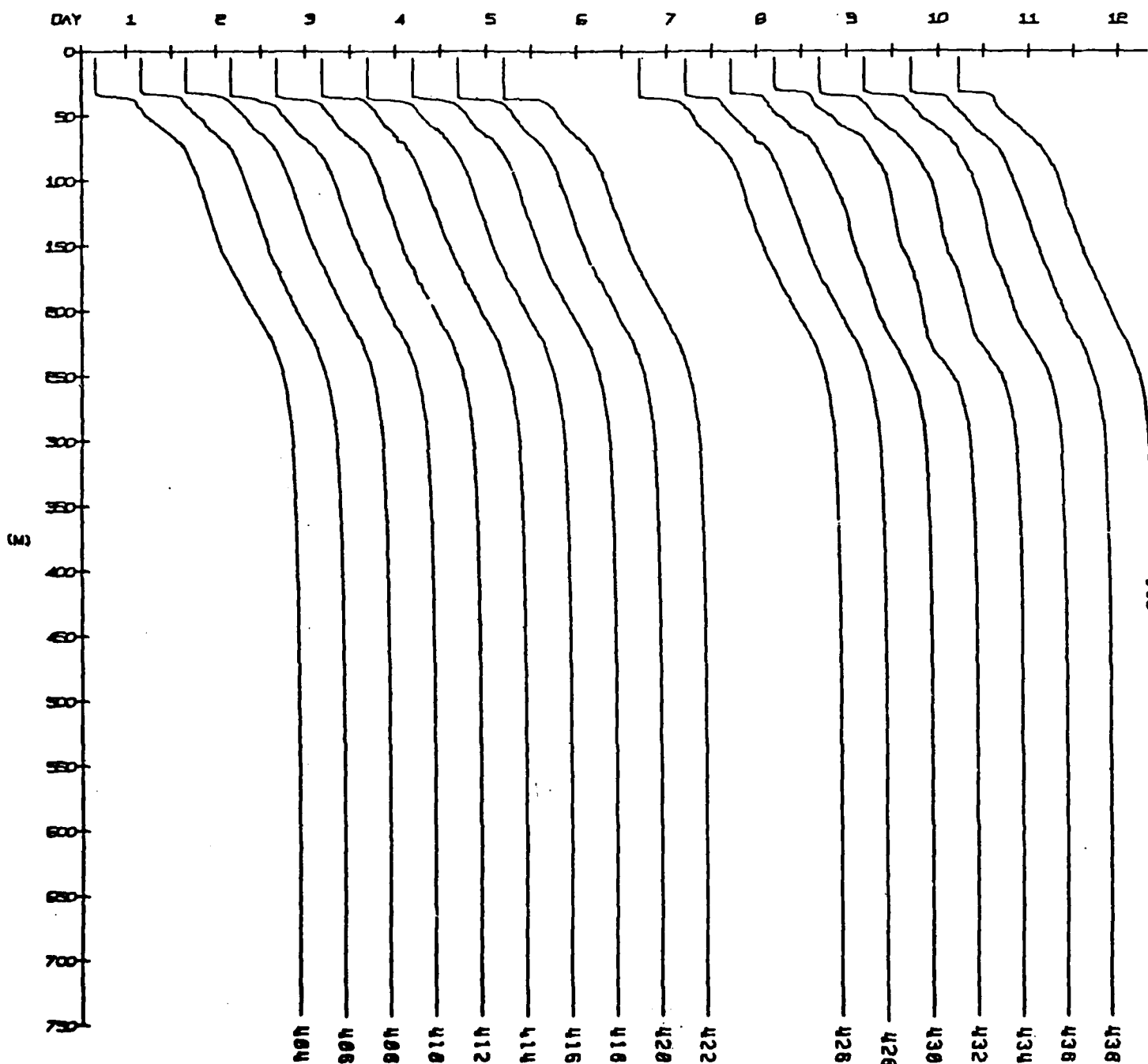




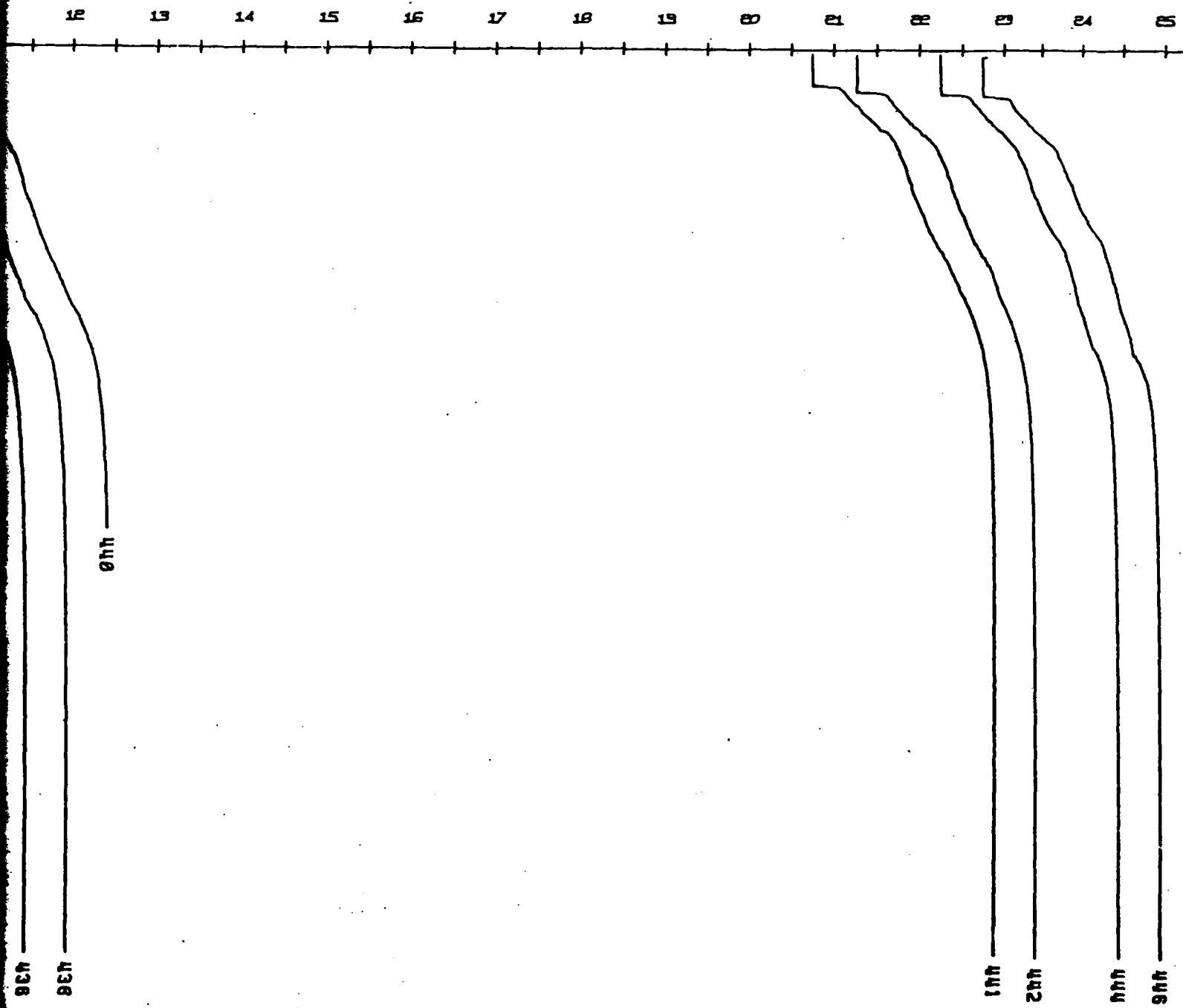
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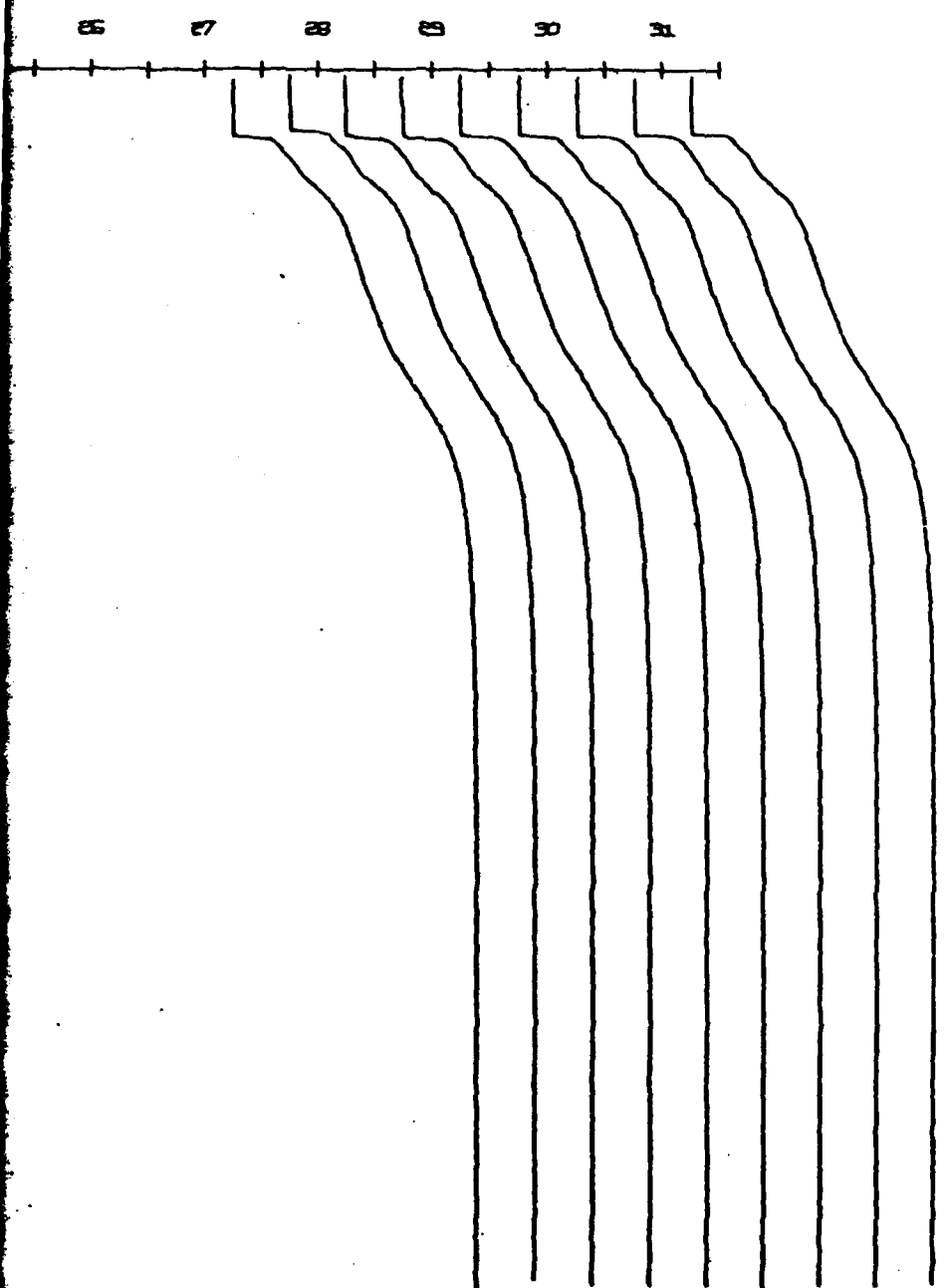
- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
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- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



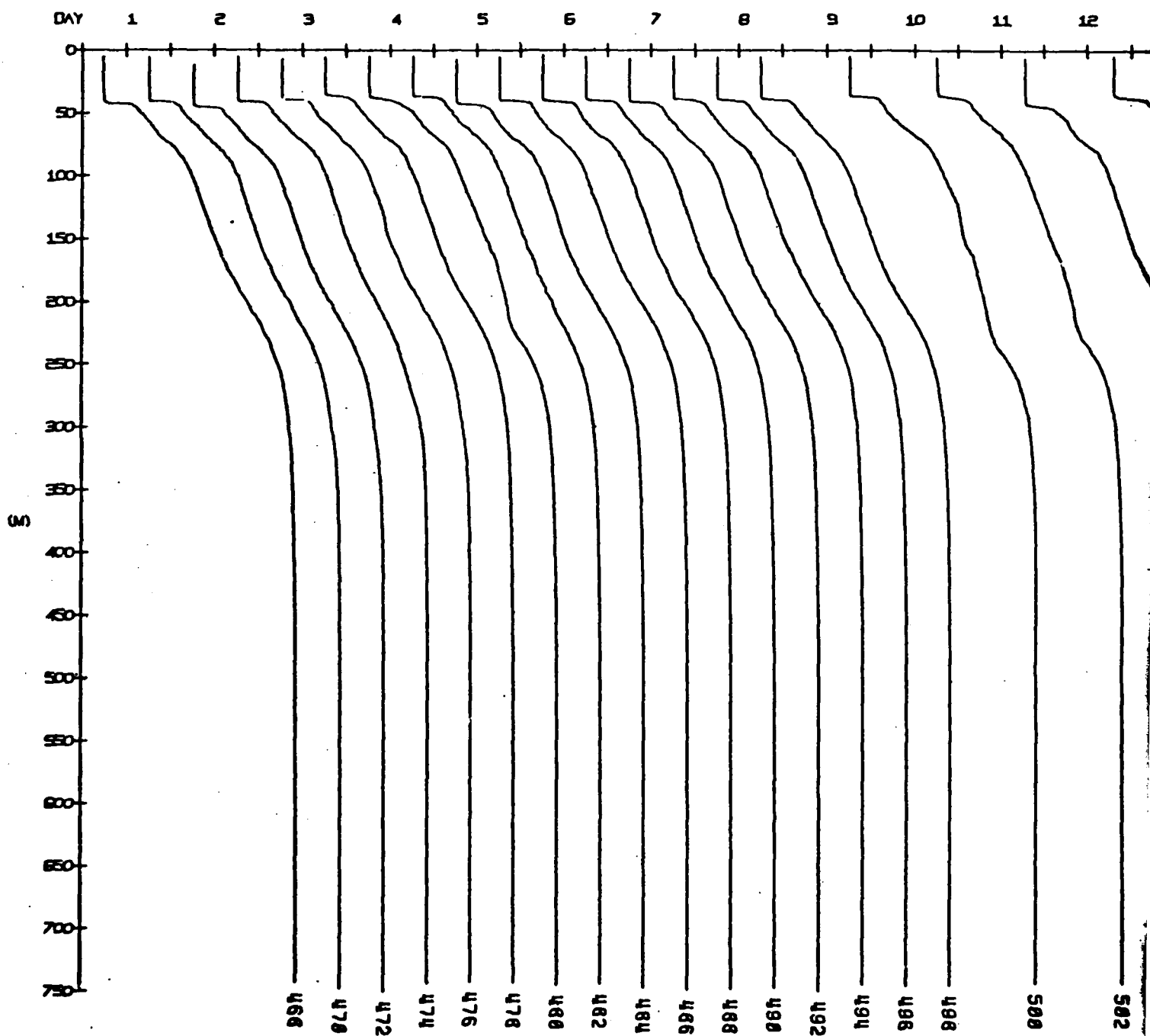
# SALINITY PROFILES AT CAMP CARIBOU DEC 1, 1975 TO DEC 31, 1975



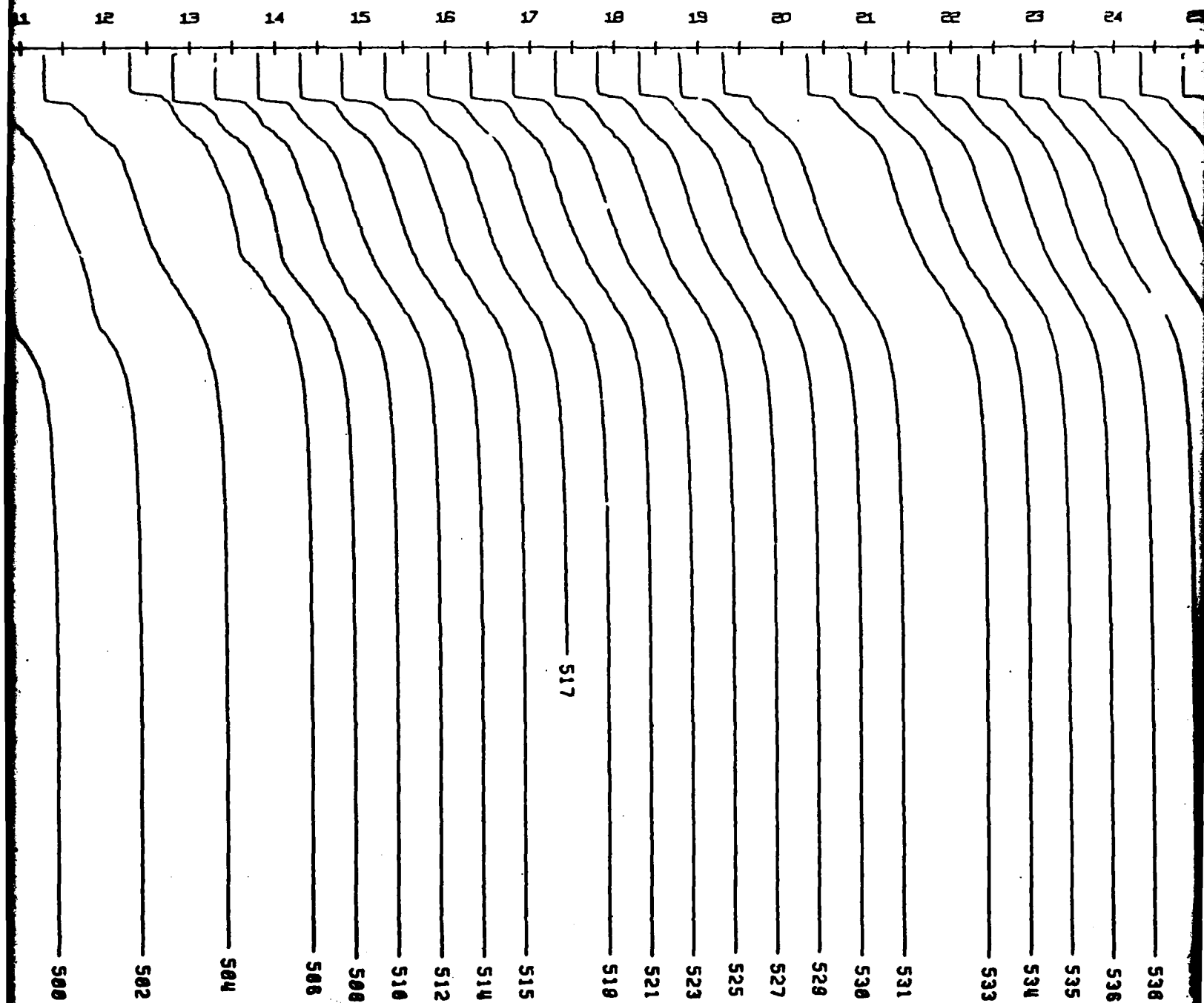
466  
464  
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452  
451

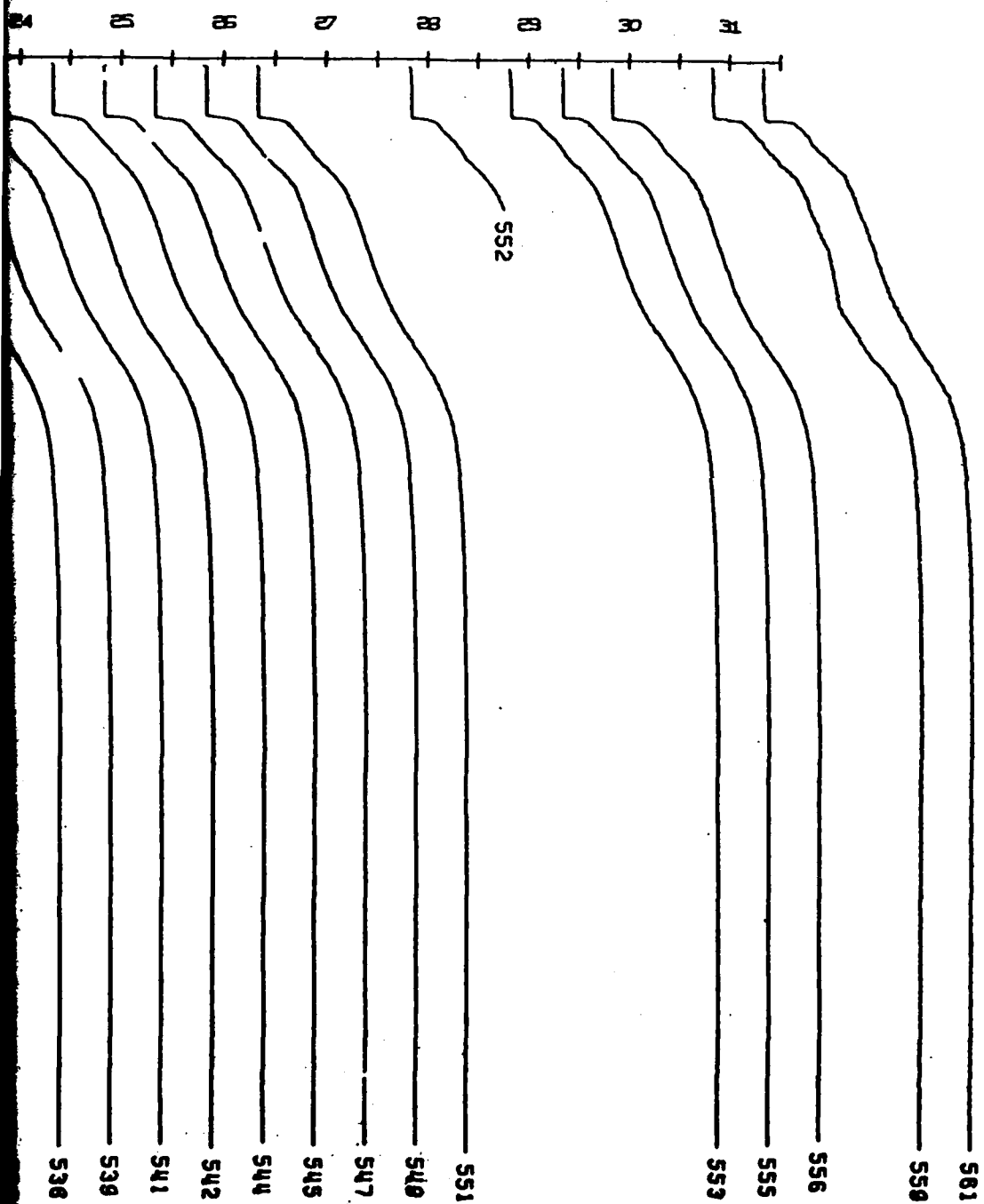


- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



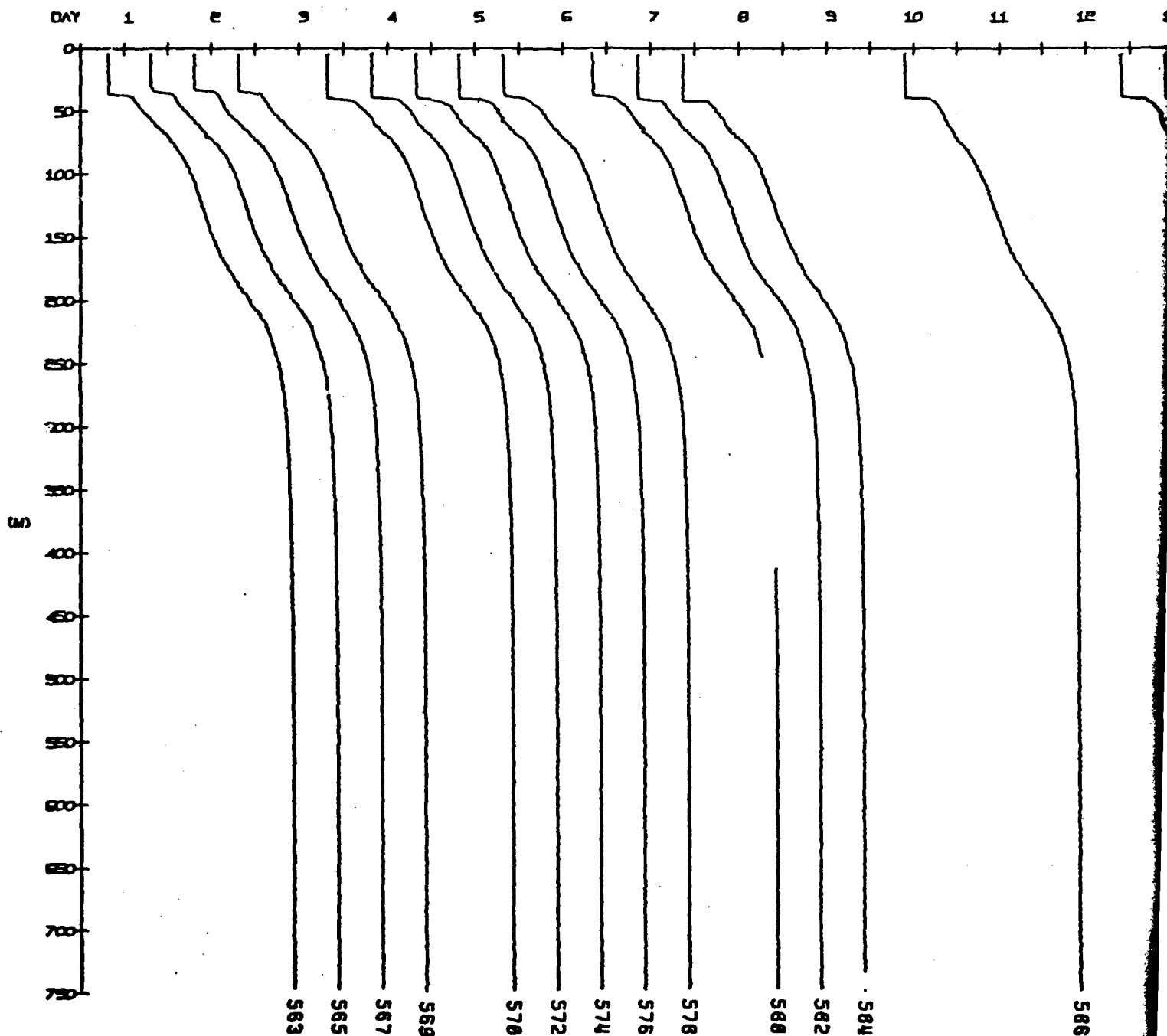
SALINITY PROFILES AT CAMP CARIBOU  
JAN 1, 1976 TO JAN 31, 1976



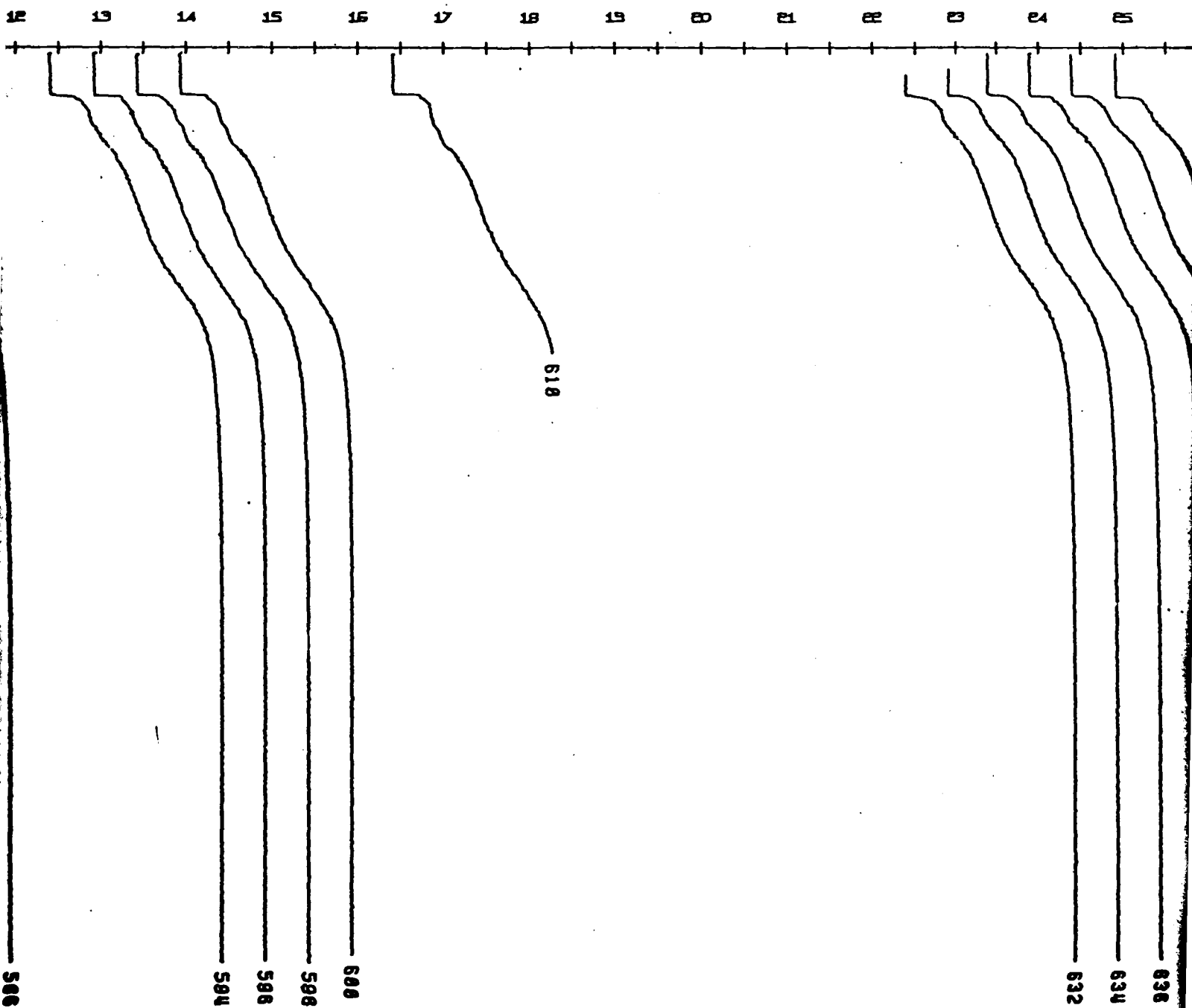


# SALINITY PR FEB 1

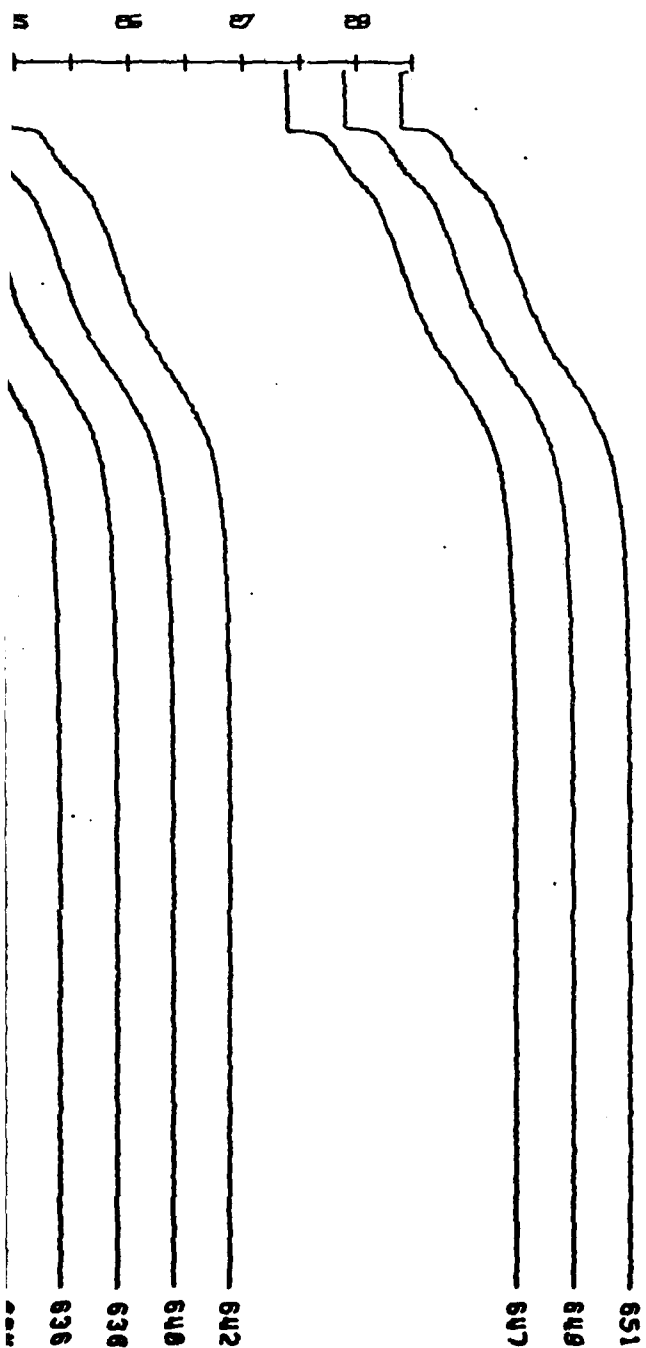
- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY

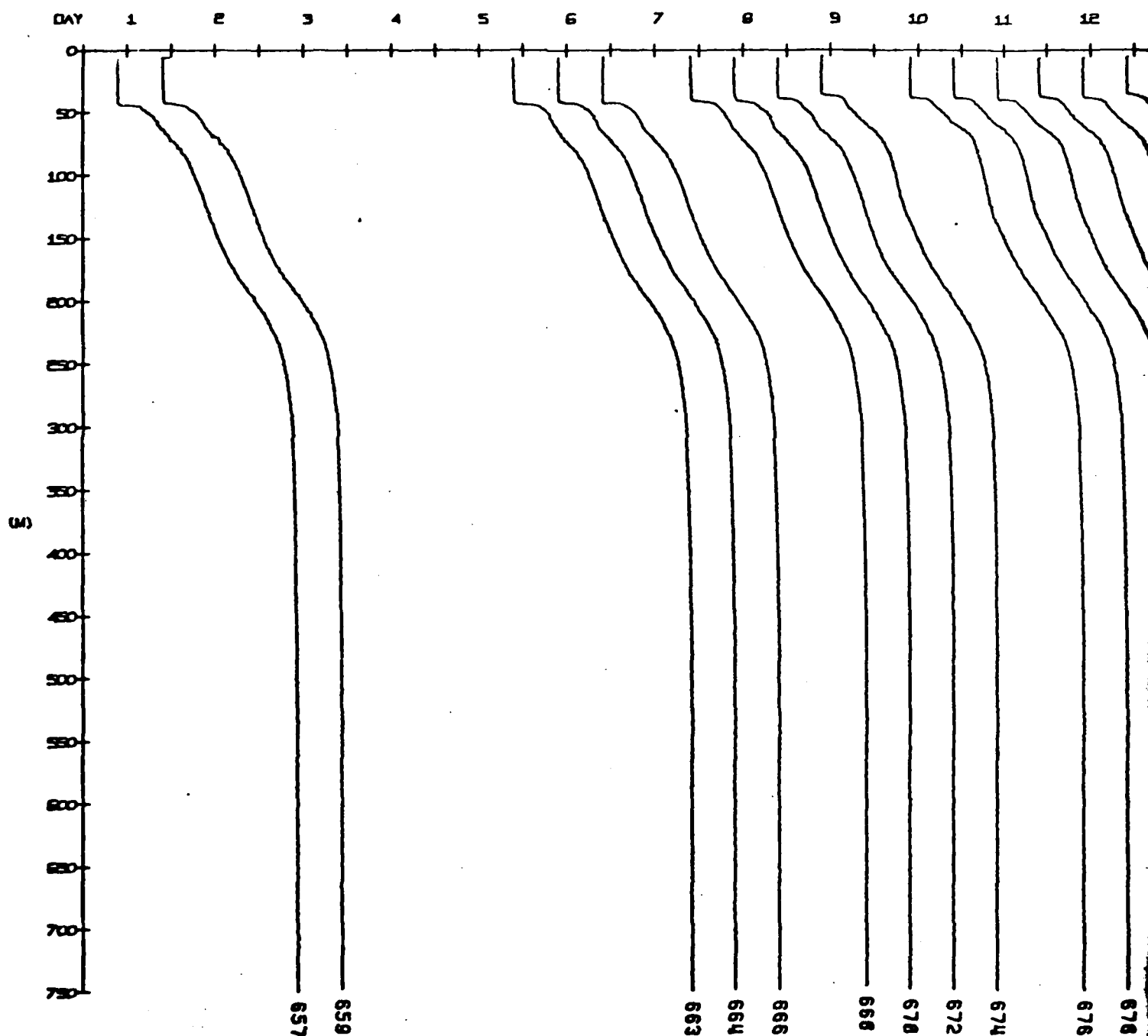


TY PROFILES AT CAMP CARIBOU  
 FEB 1, 1976 TO FEB 28, 1976

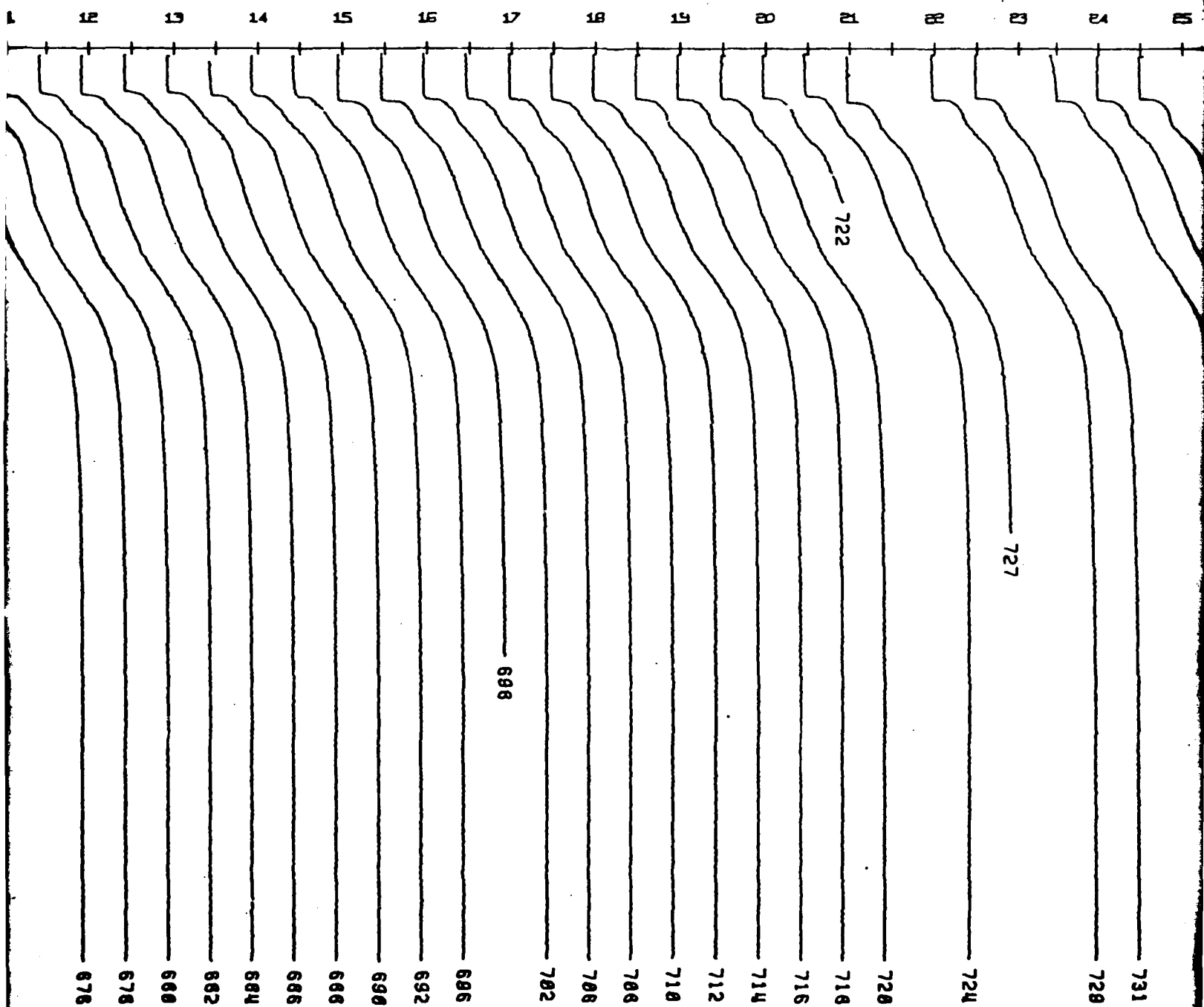


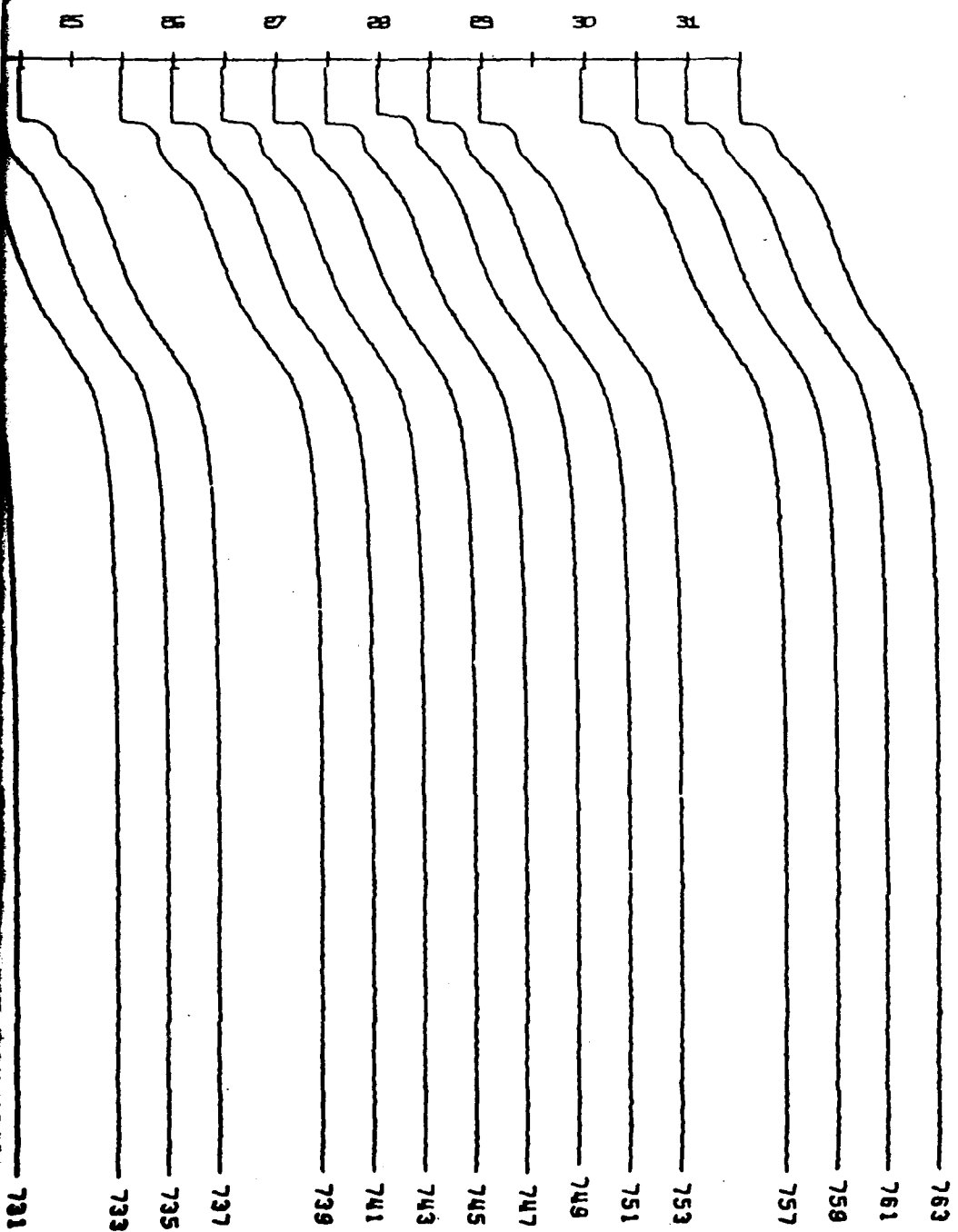






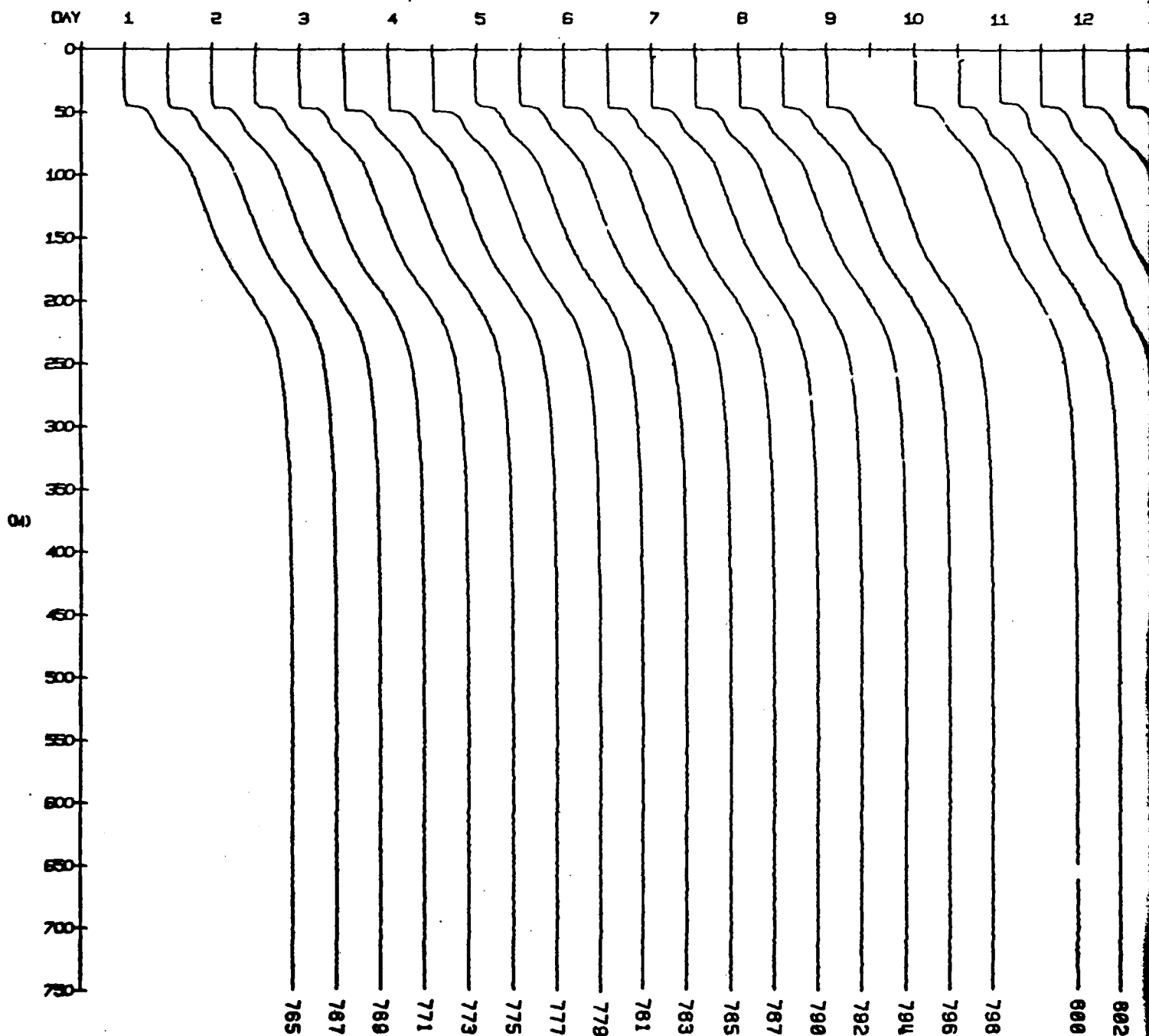
# SALINITY PROFILES AT CAMP CARIBOU MAR 1, 1976 TO MAR 31, 1976



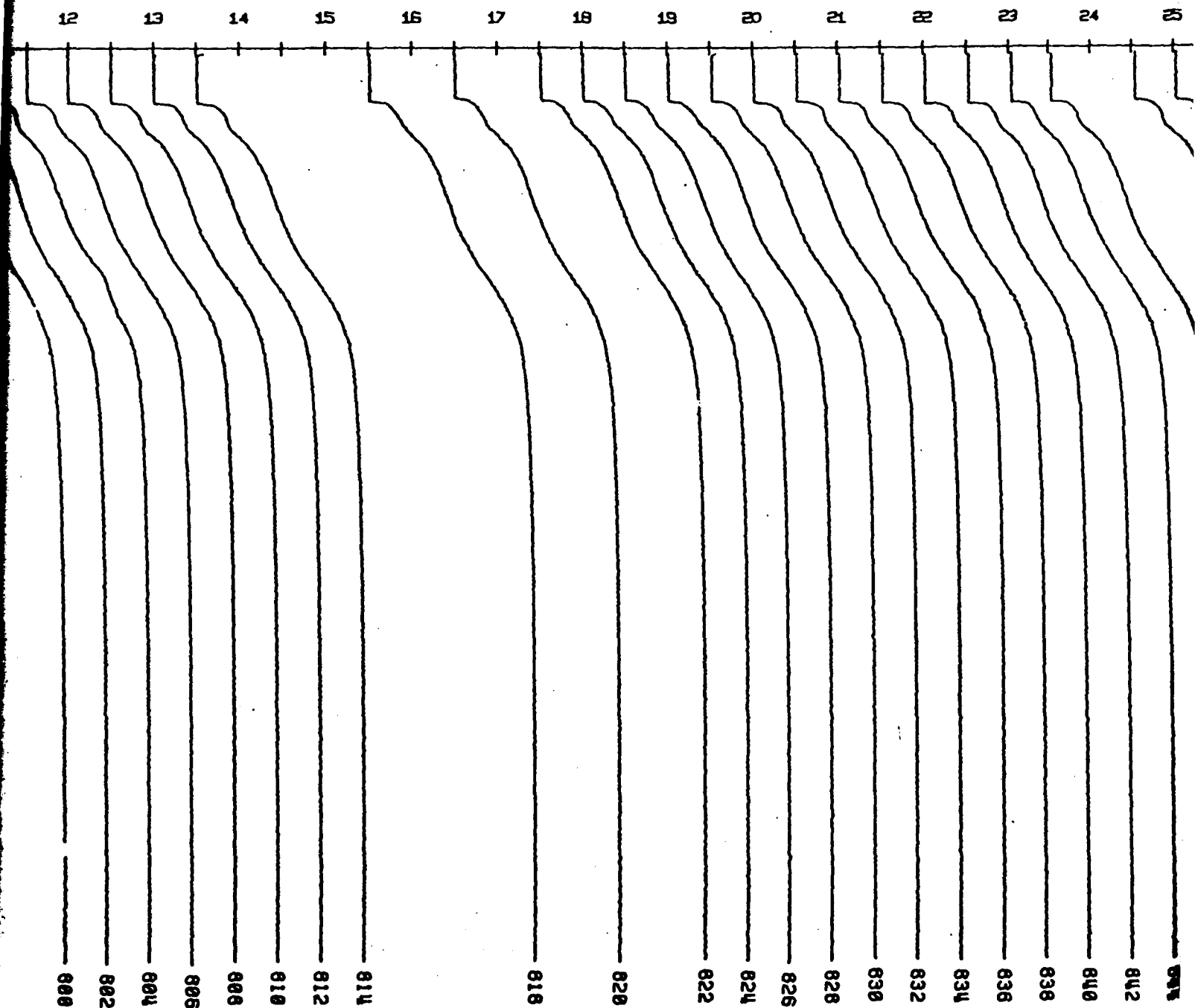


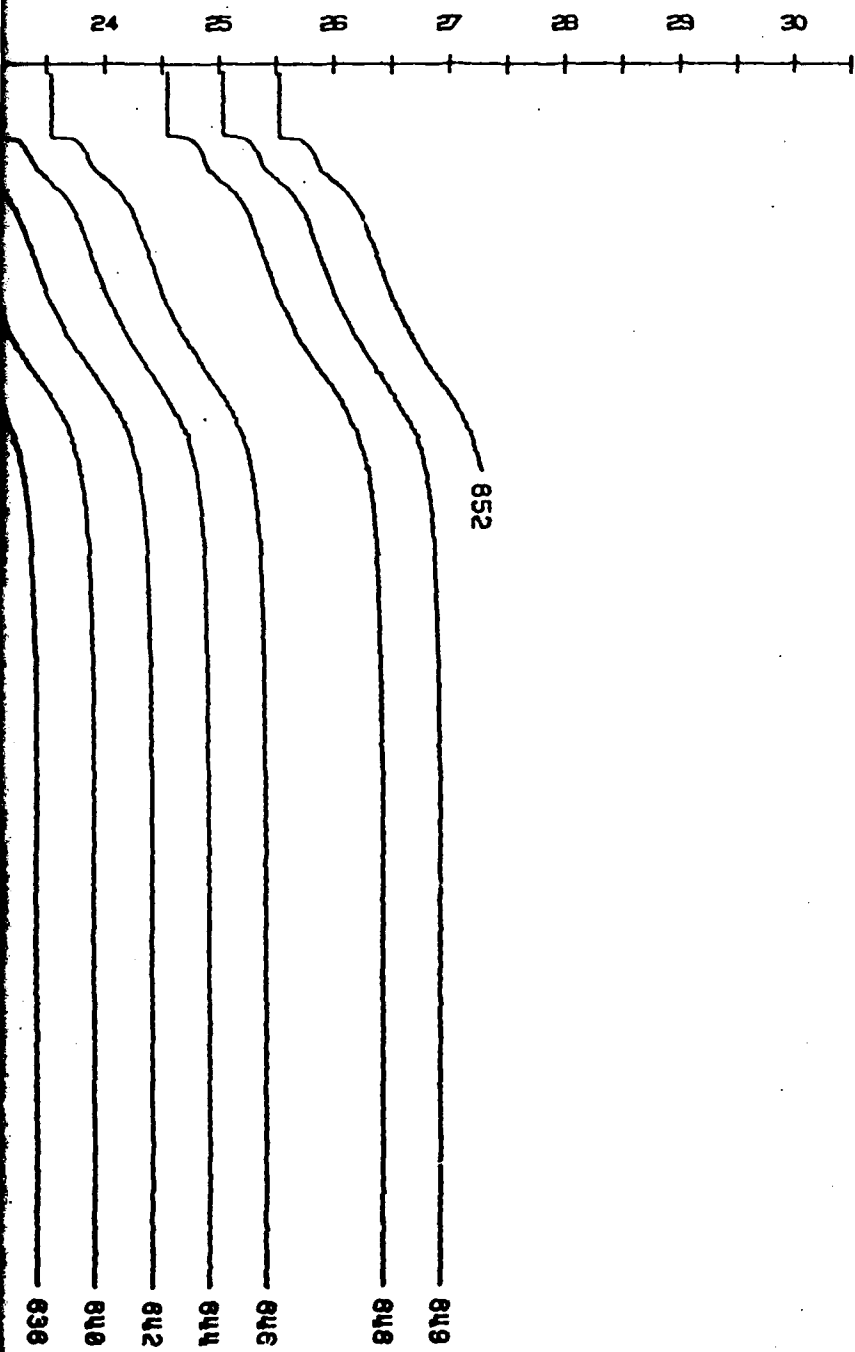
SALIN

- NO MORE THAN ONE PROFILE PER HALF DAY (AM/PM GMT) IS PLOTTED
- EACH PROFILE PLOTTED WITH RESPECT TO LEFT DIVISION MARK (30.0 PPT)
- SALINITY SCALE SHIFTS RIGHT 1 DIVISION ( 1.0 PPT) PER HALF DAY



SALINITY PROFILES AT CAMP CARIBOU  
APR 1, 1976 TO APR 30, 1976





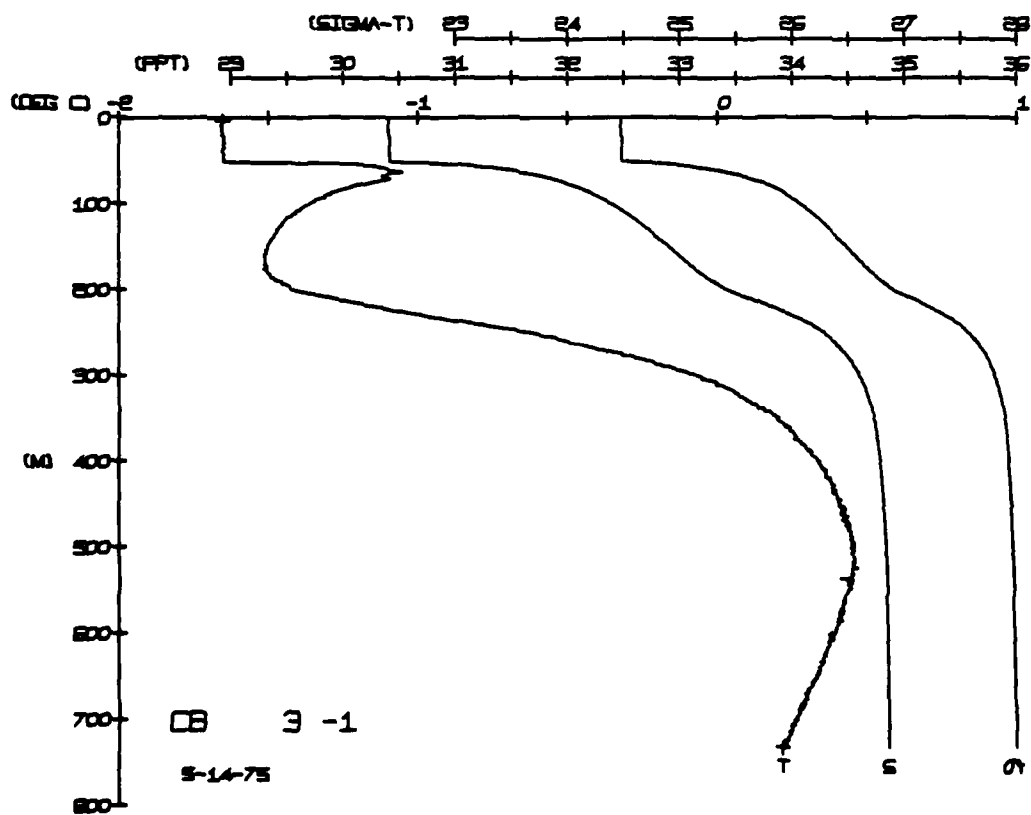
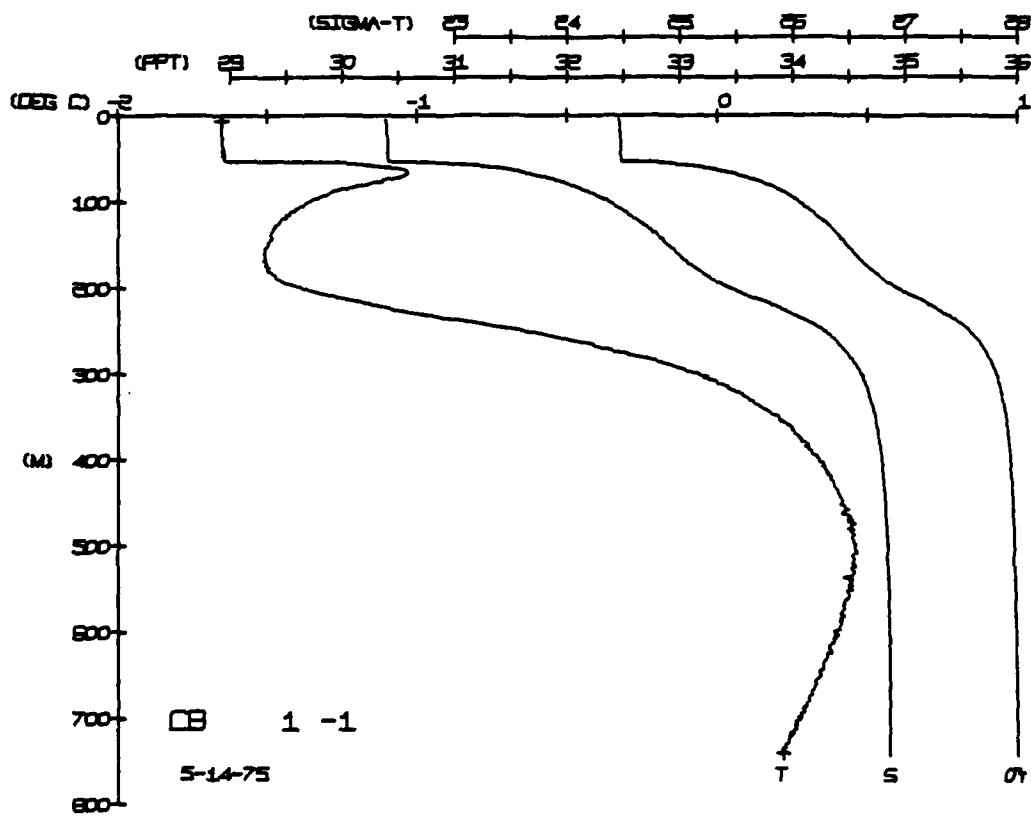
## RESULTS

### Section 2 (STD Data)

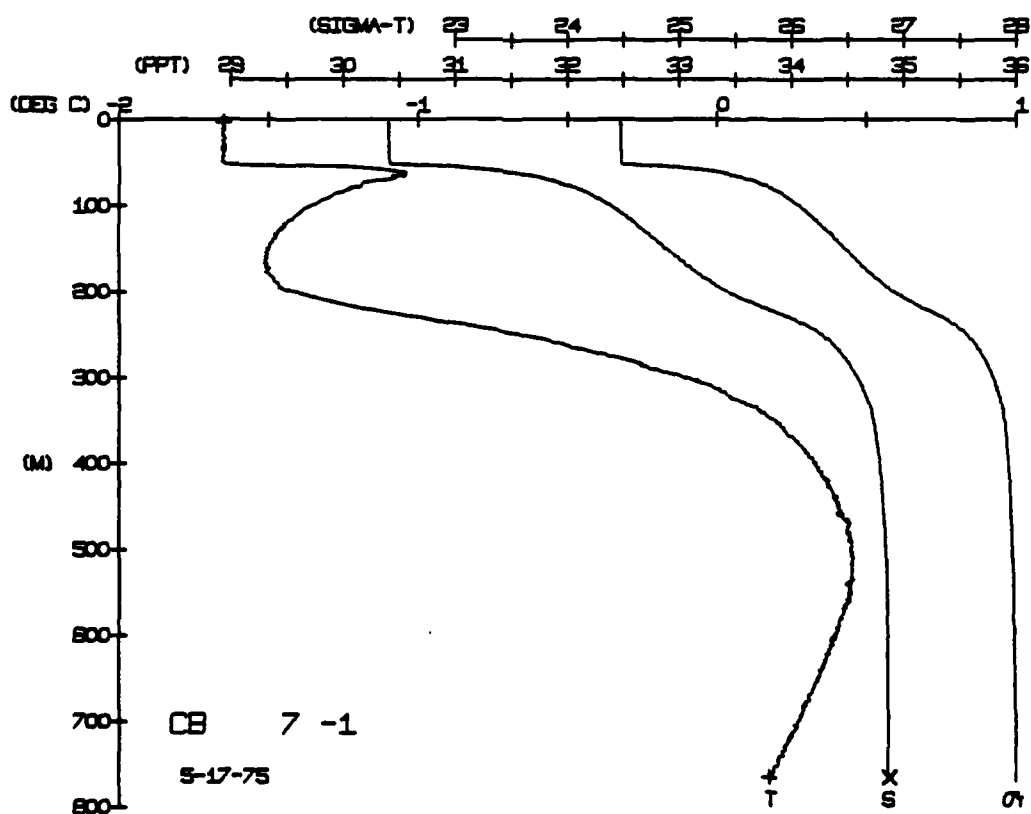
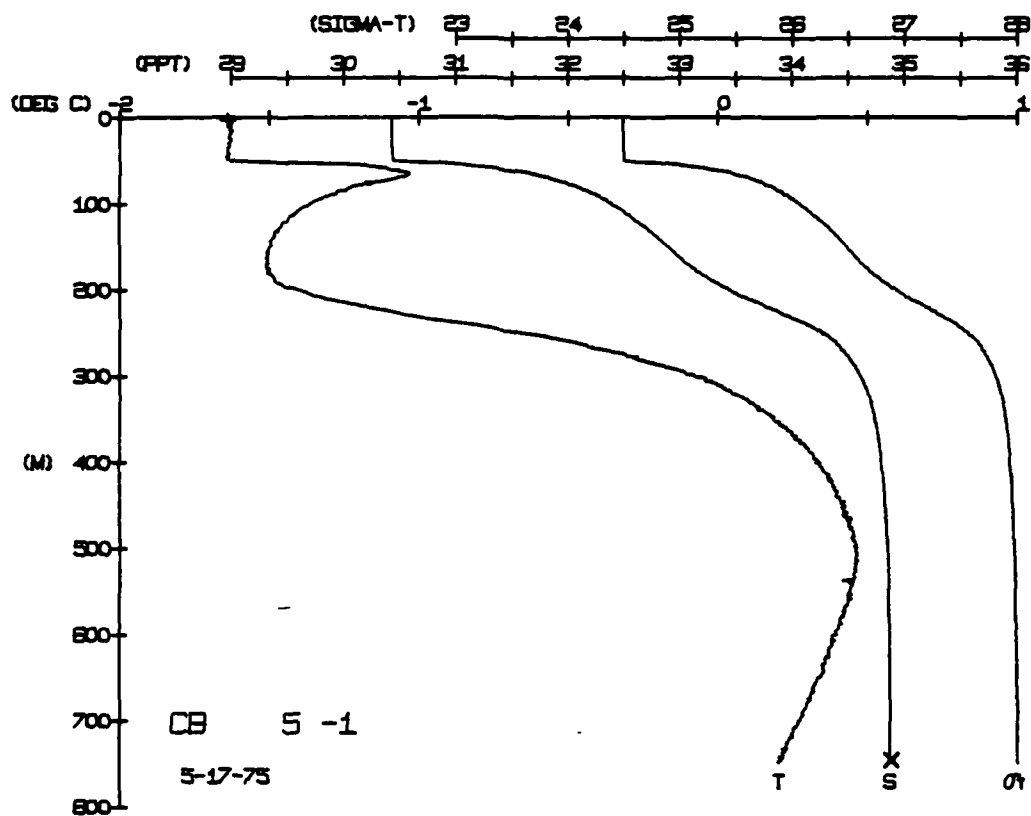
This section provides all of the STD data taken at Camp Caribou during the 1975-1976 Arctic Ice Dynamics Joint Experiment. Numerical listings and corresponding plots are given.











CARIBBEAN STATION 9(1) CTD 19/MAY/1975 1833 GMT CODE = 1  
LAT = 15.5252N LMG = 104.4173W LTER = 0.0 LGER = 0.0  
AIR TEMP = -11.6 HARM = 1013.2 WIND = 93.7 SPEED = 79.7

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0.5	1.65	1.65	30.42	24.49	345.5	0.000	1435.1
3.5	1.66	1.66	30.42	24.49	345.5	0.017	1435.2
10.5	1.66	1.66	30.42	24.49	345.5	0.032	1435.3
15.0	1.66	1.66	30.42	24.49	345.5	0.050	1435.4
20.0	1.66	1.66	30.42	24.49	345.5	0.070	1435.5
25.0	1.66	1.66	30.42	24.49	345.5	0.087	1435.6
30.0	1.66	1.66	30.42	24.49	345.5	0.104	1435.7
35.0	1.66	1.66	30.42	24.49	345.5	0.122	1435.8
40.0	1.66	1.66	30.42	24.49	345.5	0.139	1435.9
45.0	1.66	1.66	30.42	24.49	345.5	0.156	1435.8
50.0	1.66	1.66	30.42	24.49	345.5	0.174	1435.9
55.0	1.66	1.66	30.42	24.49	345.5	0.191	1435.9
60.0	1.66	1.66	30.42	24.49	345.5	0.207	1435.9
65.0	1.66	1.66	30.42	24.49	345.5	0.221	1435.9
70.0	1.66	1.66	30.42	24.49	345.5	0.233	1435.9
75.0	1.66	1.66	30.42	24.49	345.5	0.245	1435.9
80.0	1.66	1.66	30.42	24.49	345.5	0.257	1435.9
85.0	1.66	1.66	30.42	24.49	345.5	0.278	1435.9
90.0	1.66	1.66	30.42	24.49	345.5	0.299	1435.9
95.0	1.66	1.66	30.42	24.49	345.5	0.317	1435.9
100.0	1.66	1.66	30.42	24.49	345.5	0.337	1435.9
110.0	1.66	1.66	30.42	24.49	345.5	0.354	1435.9
120.0	1.66	1.66	30.42	24.49	345.5	0.372	1435.9
130.0	1.66	1.66	30.42	24.49	345.5	0.388	1435.9
140.0	1.66	1.66	30.42	24.49	345.5	0.403	1435.9
150.0	1.66	1.66	30.42	24.49	345.5	0.418	1435.9
160.0	1.66	1.66	30.42	24.49	345.5	0.432	1435.9
170.0	1.66	1.66	30.42	24.49	345.5	0.445	1435.9
180.0	1.66	1.66	30.42	24.49	345.5	0.457	1435.9
190.0	1.66	1.66	30.42	24.49	345.5	0.468	1435.9
200.0	1.66	1.66	30.42	24.49	345.5	0.478	1435.9
210.0	1.66	1.66	30.42	24.49	345.5	0.486	1435.9
220.0	1.66	1.66	30.42	24.49	345.5	0.493	1435.9
230.0	1.66	1.66	30.42	24.49	345.5	0.504	1435.9
240.0	1.66	1.66	30.42	24.49	345.5	0.509	1435.9
250.0	1.66	1.66	30.42	24.49	345.5	0.513	1435.9
260.0	1.66	1.66	30.42	24.49	345.5	0.516	1435.9
270.0	1.66	1.66	30.42	24.49	345.5	0.522	1435.9
280.0	1.66	1.66	30.42	24.49	345.5	0.525	1435.9
290.0	1.66	1.66	30.42	24.49	345.5	0.528	1435.9
300.0	1.66	1.66	30.42	24.49	345.5	0.532	1435.9
310.0	1.66	1.66	30.42	24.49	345.5	0.536	1435.9
320.0	1.66	1.66	30.42	24.49	345.5	0.540	1435.9
330.0	1.66	1.66	30.42	24.49	345.5	0.543	1435.9
340.0	1.66	1.66	30.42	24.49	345.5	0.547	1435.9
350.0	1.66	1.66	30.42	24.49	345.5	0.550	1435.9
360.0	1.66	1.66	30.42	24.49	345.5	0.553	1435.9
370.0	1.66	1.66	30.42	24.49	345.5	0.556	1435.9
380.0	1.66	1.66	30.42	24.49	345.5	0.559	1435.9
390.0	1.66	1.66	30.42	24.49	345.5	0.562	1435.9
400.0	1.66	1.66	30.42	24.49	345.5	0.565	1435.9
410.0	1.66	1.66	30.42	24.49	345.5	0.567	1435.9
420.0	1.66	1.66	30.42	24.49	345.5	0.570	1435.9
430.0	1.66	1.66	30.42	24.49	345.5	0.573	1435.9
440.0	1.66	1.66	30.42	24.49	345.5	0.575	1435.9
450.0	1.66	1.66	30.42	24.49	345.5	0.578	1435.9
460.0	1.66	1.66	30.42	24.49	345.5	0.580	1435.9
470.0	1.66	1.66	30.42	24.49	345.5	0.582	1435.9
480.0	1.66	1.66	30.42	24.49	345.5	0.585	1435.9
490.0	1.66	1.66	30.42	24.49	345.5	0.587	1435.9
500.0	1.66	1.66	30.42	24.49	345.5	0.589	1435.9

BUT NUM = 1  
BUT NUM = 2

TEMP. -1.65  
0.21

DEPTH 3.2  
746.4

SALIN 34.88

CARIBBEAN STATION 11(1) CTD 19/MAY/1975 1837 GMT CODE = 3  
LAT = 15.4997N LMG = 104.4719W LTER = 2.0 LGER = 3.0  
AIR TEMP = -12.3 HARM = 1013.6 WIND = 356.0 SPEED = 50.6

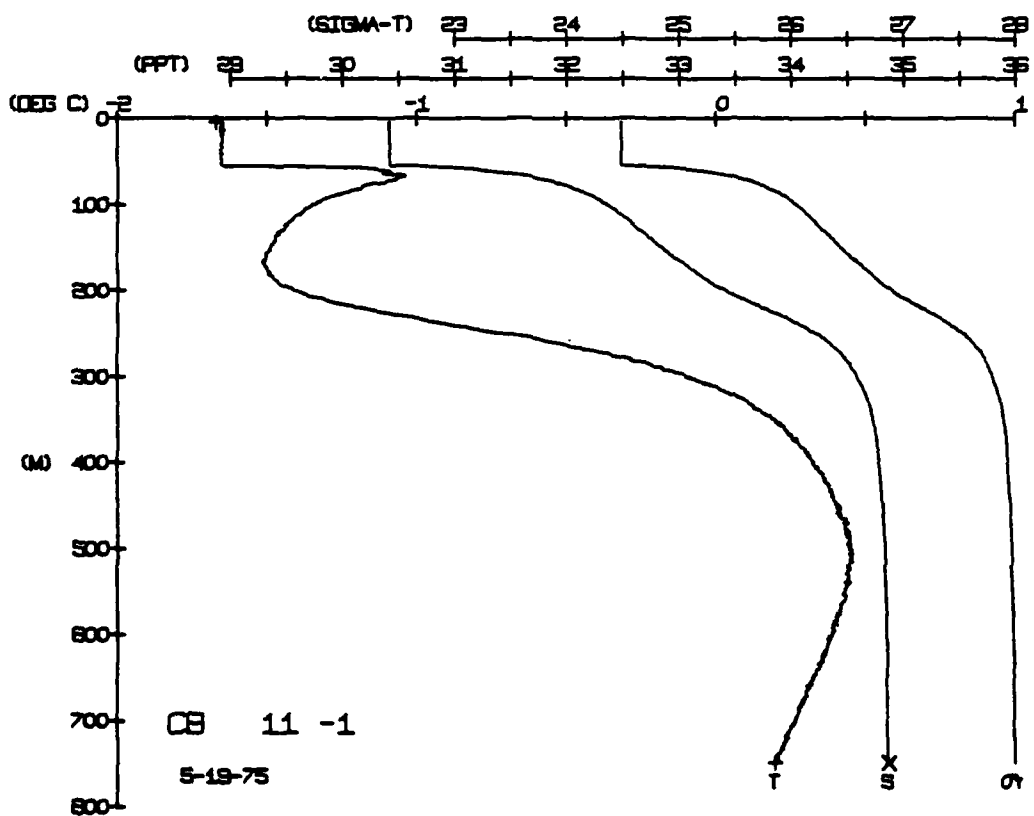
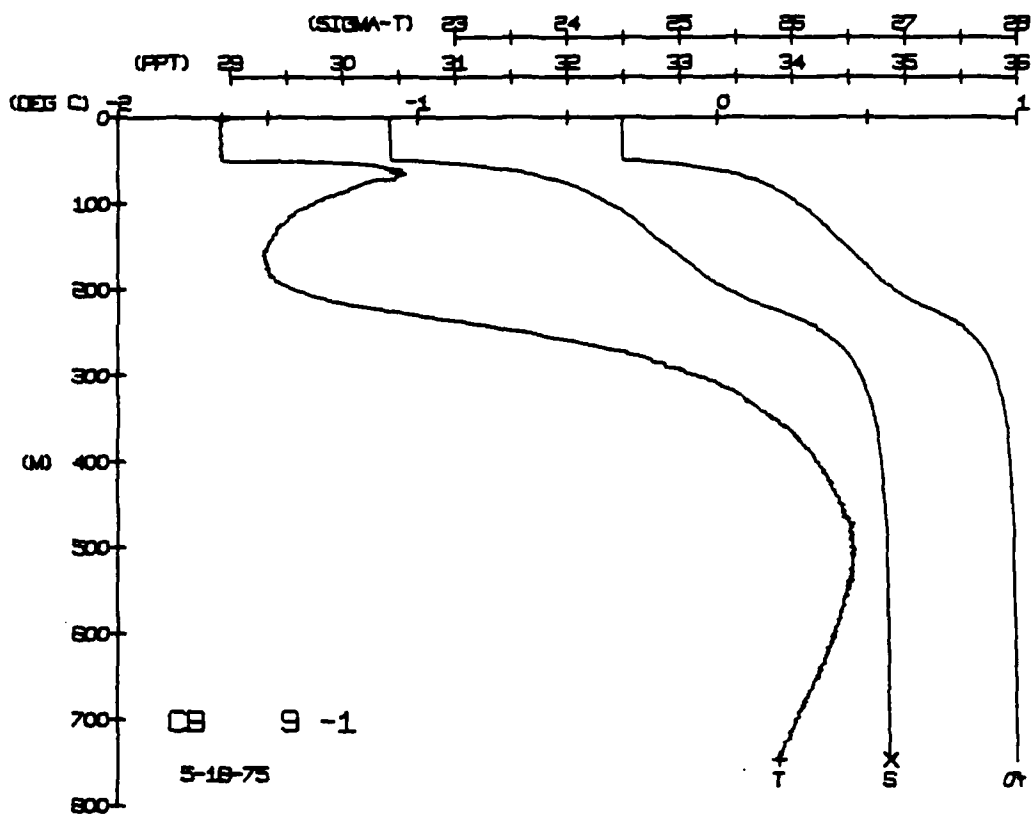
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0.8	1.65	1.65	30.42	24.49	345.5	0.000	1435.1
4.5	1.65	1.65	30.42	24.49	345.5	0.017	1435.2
10.5	1.65	1.65	30.42	24.49	345.5	0.032	1435.3
15.0	1.65	1.65	30.42	24.49	345.5	0.050	1435.4
20.0	1.65	1.65	30.42	24.49	345.5	0.070	1435.5
25.0	1.65	1.65	30.42	24.49	345.5	0.087	1435.6
30.0	1.65	1.65	30.42	24.49	345.5	0.104	1435.7
35.0	1.65	1.65	30.42	24.49	345.5	0.122	1435.8
40.0	1.65	1.65	30.42	24.49	345.5	0.139	1435.8
45.0	1.65	1.65	30.42	24.49	345.5	0.156	1435.9
50.0	1.65	1.65	30.42	24.49	345.5	0.174	1435.9
55.0	1.65	1.65	30.42	24.49	345.5	0.191	1435.9
60.0	1.65	1.65	30.42	24.49	345.5	0.207	1435.9
65.0	1.65	1.65	30.42	24.49	345.5	0.221	1435.9
70.0	1.65	1.65	30.42	24.49	345.5	0.233	1435.9
75.0	1.65	1.65	30.42	24.49	345.5	0.245	1435.9
80.0	1.65	1.65	30.42	24.49	345.5	0.257	1435.9
85.0	1.65	1.65	30.42	24.49	345.5	0.278	1435.9
90.0	1.65	1.65	30.42	24.49	345.5	0.299	1435.9
95.0	1.65	1.65	30.42	24.49	345.5	0.317	1435.9
100.0	1.65	1.65	30.42	24.49	345.5	0.337	1435.9
110.0	1.65	1.65	30.42	24.49	345.5	0.354	1435.9
120.0	1.65	1.65	30.42	24.49	345.5	0.372	1435.9
130.0	1.65	1.65	30.42	24.49	345.5	0.388	1435.9
140.0	1.65	1.65	30.42	24.49	345.5	0.403	1435.9
150.0	1.65	1.65	30.42	24.49	345.5	0.418	1435.9
160.0	1.65	1.65	30.42	24.49	345.5	0.432	1435.9
170.0	1.65	1.65	30.42	24.49	345.5	0.445	1435.9
180.0	1.65	1.65	30.42	24.49	345.5	0.457	1435.9
190.0	1.65	1.65	30.42	24.49	345.5	0.468	1435.9
200.0	1.65	1.65	30.42	24.49	345.5	0.478	1435.9
210.0	1.65	1.65	30.42	24.49	345.5	0.486	1435.9
220.0	1.65	1.65	30.42	24.49	345.5	0.493	1435.9
230.0	1.65	1.65	30.42	24.49	345.5	0.504	1435.9
240.0	1.65	1.65	30.42	24.49	345.5	0.509	1435.9
250.0	1.65	1.65	30.42	24.49	345.5	0.513	1435.9
260.0	1.65	1.65	30.42	24.49	345.5	0.516	1435.9
270.0	1.65	1.65	30.42	24.49	345.5	0.522	1435.9
280.0	1.65	1.65	30.42	24.49	345.5	0.525	1435.9
290.0	1.65	1.65	30.42	24.49	345.5	0.528	1435.9
300.0	1.65	1.65	30.42	24.49	345.5	0.532	1435.9
310.0	1.65	1.65	30.42	24.49	345.5	0.536	1435.9
320.0	1.65	1.65	30.42	24.49	345.5	0.540	1435.9
330.0	1.65	1.65	30.42	24.49	345.5	0.543	1435.9
340.0	1.65	1.65	30.42	24.49	345.5	0.547	1435.9
350.0	1.65	1.65	30.42	24.49	345.5	0.550	1435.9
360.0	1.65	1.65	30.42	24.49	345.5	0.553	1435.9
370.0	1.65	1.65	30.42	24.49	345.5	0.556	1435.9
380.0	1.65	1.65	30.42	24.49	345.5	0.559	1435.9
390.0	1.65	1.65	30.42	24.49	345.5	0.562	1435.9
400.0	1.65	1.65	30.42	24.49	345.5	0.565	1435.9
410.0	1.65	1.65	30.42	24.49	345.5	0.567	1435.9
420.0	1.65	1.65	30.42	24.49	345.5	0.570	1435.9
430.0	1.65	1.65	30.42	24.49	345.5	0.573	1435.9
440.0	1.65	1.65	30.42	24.49	345.5	0.575	1435.9
450.0	1.65	1.65	30.42	24.49	345.5	0.578	1435.9
460.0	1.65	1.65	30.42	24.49	345.5	0.580	1435.9
470.0	1.65	1.65	30.42	24.49	345.5	0.582	1435.9
480.0	1.65	1.65	30.42	24.49	345.5	0.585	1435.9
490.0	1.65	1.65	30.42	24.49	345.5	0.587	1435.9
500.0	1.65	1.65	30.42	24.49	345.5	0.589	1435.9

BUT NUM = 1  
BUT NUM = 2

TEMP. -1.67  
0.20

DEPTH 4.4  
748.1

SALIN 34.89



CARIBOU STATION 13(1) CTD 20/MAY/1975 1813 GMT CUNE = 1  
LAT = 75.4658N LNG = 144.7787W LICK = 0.0 LICK = 0.0  
AIN TEMP = -12.3 HARUM = 1020.9 WIND = 356.0 SPEED = 50.6

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
0.0	-1.65	-1.65	30.43	24.49	345.1	0.000	1435.1
3.7	-1.66	-1.66	30.43	24.49	345.1	0.013	1435.1
5.0	-1.66	-1.66	30.43	24.49	345.1	0.017	1435.1
15.0	-1.65	-1.65	30.43	24.49	344.8	0.069	1435.4
25.0	-1.65	-1.65	30.43	24.49	344.8	0.081	1435.4
35.0	-1.65	-1.65	30.43	24.49	344.4	0.123	1435.6
45.0	-1.65	-1.65	30.43	24.49	344.4	0.136	1435.6
55.0	-1.65	-1.65	30.43	24.49	344.2	0.150	1435.9
65.0	-1.63	-1.63	30.43	24.49	347.9	0.190	1435.9
70.0	-1.19	-1.19	31.29	25.88	259.9	0.208	1439.7
75.0	-1.09	-1.09	31.55	25.18	259.9	0.218	1440.7
80.0	-1.23	-1.23	31.76	25.54	221.7	0.254	1440.7
90.0	-1.29	-1.29	32.03	25.93	207.4	0.276	1440.7
100.0	-1.40	-1.40	32.26	26.15	196.1	0.305	1441.1
110.0	-1.48	-1.48	32.50	26.23	177.4	0.334	1441.1
120.0	-1.51	-1.51	32.79	26.48	162.5	0.368	1441.1
130.0	-1.51	-1.51	32.88	26.48	152.5	0.399	1441.1
140.0	-1.50	-1.50	33.08	26.63	147.5	0.428	1442.3
150.0	-1.46	-1.46	33.12	26.80	132.4	0.453	1443.3
160.0	-1.41	-1.41	33.24	26.91	114.1	0.473	1443.3
170.0	-1.37	-1.37	33.35	27.04	96.9	0.488	1443.3
180.0	-1.33	-1.33	33.45	27.17	81.1	0.498	1443.3
190.0	-1.30	-1.30	33.52	27.25	61.1	0.507	1445.2
200.0	-1.27	-1.27	33.59	27.31	44.9	0.513	1445.2
210.0	-1.24	-1.24	33.64	27.38	32.5	0.516	1445.2
220.0	-1.21	-1.21	33.69	27.47	22.5	0.519	1445.2
230.0	-1.18	-1.18	33.73	27.59	15.3	0.523	1445.2
240.0	-1.15	-1.15	33.77	27.73	10.0	0.526	1445.6
250.0	-1.12	-1.12	33.81	27.89	6.7	0.533	1445.6
260.0	-1.09	-1.09	33.85	27.94	4.1	0.540	1445.7
270.0	-1.06	-1.06	33.89	27.97	2.5	0.547	1445.8
280.0	-1.03	-1.03	33.93	27.99	1.5	0.550	1445.8
290.0	-1.00	-1.00	33.96	27.99	1.3	0.553	1445.9
300.0	-0.97	-0.97	33.98	27.99	1.2	0.556	1446.0
310.0	-0.94	-0.94	34.00	27.99	1.1	0.559	1446.0
320.0	-0.91	-0.91	34.01	27.99	1.1	0.561	1446.0
330.0	-0.88	-0.88	34.02	27.99	1.1	0.564	1446.1
340.0	-0.85	-0.85	34.03	27.99	1.1	0.567	1446.1
350.0	-0.82	-0.82	34.04	27.99	1.1	0.570	1446.1
360.0	-0.79	-0.79	34.05	27.99	1.1	0.573	1446.1
370.0	-0.76	-0.76	34.06	27.99	1.1	0.576	1446.1
380.0	-0.73	-0.73	34.07	27.99	1.1	0.579	1446.1
390.0	-0.70	-0.70	34.08	27.99	1.1	0.580	1446.2
400.0	-0.67	-0.67	34.09	27.99	1.1	0.580	1446.2

HOT NUM = 1  
HOT NUM = 2

DEPTH 3.6  
747.7

TEMP -1.65  
0.20

SALIN 34.89

CARIBOU STATION 15(1) CTD 21/MAY/1975 1817 GMT CUNE = 3  
LAT = 75.4658N LNG = 144.7404W LICK = 0.0 LICK = 1.1  
AIN TEMP = -11.1 HARUM = 1020.7 WIND = 127.8 SPEED = 32.1

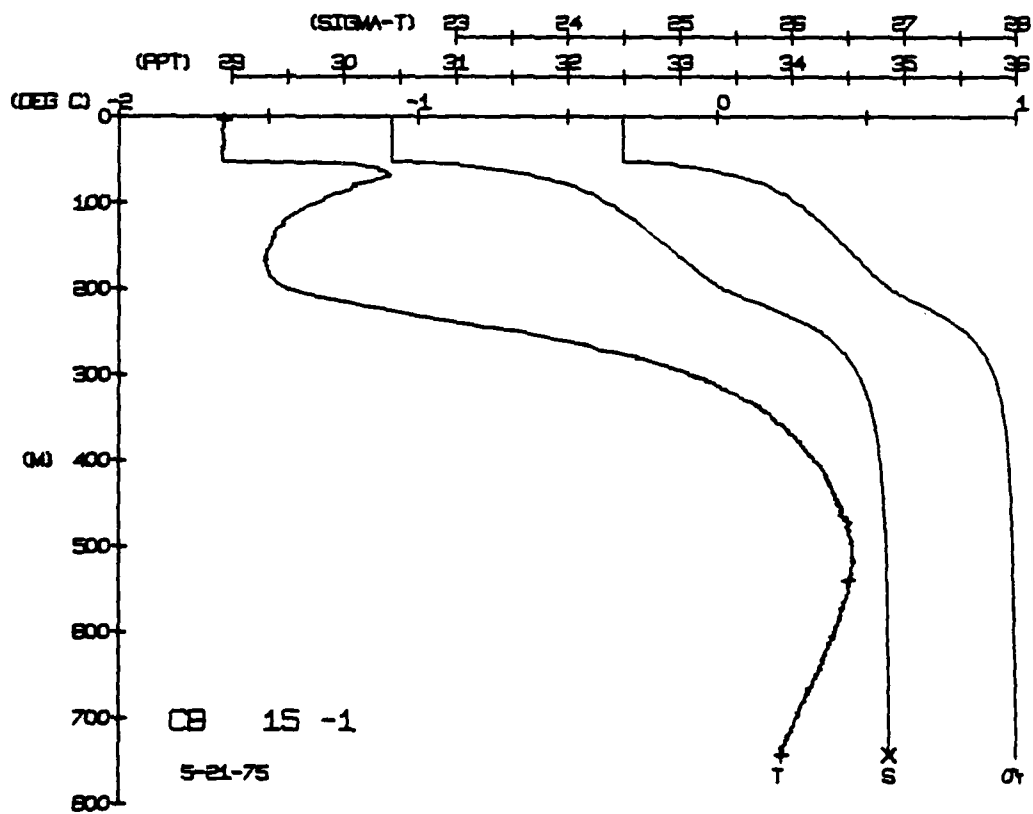
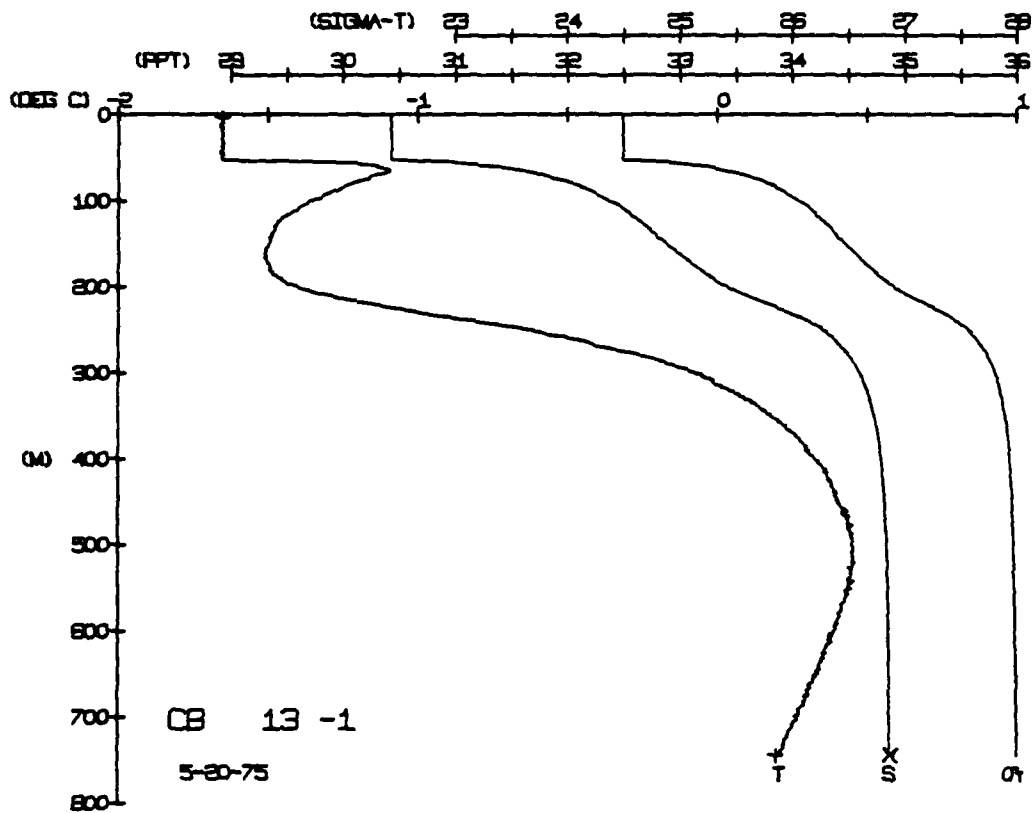
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
0.0	-1.65	-1.65	30.43	24.49	345.2	0.000	1435.2
3.7	-1.66	-1.66	30.43	24.49	345.2	0.013	1435.2
5.0	-1.66	-1.66	30.43	24.49	345.2	0.017	1435.2
15.0	-1.65	-1.65	30.43	24.49	344.8	0.069	1435.4
25.0	-1.65	-1.65	30.43	24.49	344.8	0.081	1435.4
35.0	-1.65	-1.65	30.43	24.49	344.4	0.123	1435.6
45.0	-1.65	-1.65	30.43	24.49	344.4	0.136	1435.6
55.0	-1.65	-1.65	30.43	24.49	344.2	0.150	1435.9
65.0	-1.63	-1.63	30.43	24.49	347.9	0.190	1435.9
70.0	-1.09	-1.09	31.29	25.88	259.9	0.208	1439.7
75.0	-1.09	-1.09	31.55	25.18	261.7	0.218	1440.7
80.0	-1.23	-1.23	31.76	25.54	221.7	0.254	1440.7
90.0	-1.29	-1.29	32.03	25.93	207.4	0.276	1440.7
100.0	-1.40	-1.40	32.26	26.15	196.1	0.305	1441.1
110.0	-1.48	-1.48	32.50	26.23	177.4	0.334	1441.1
120.0	-1.51	-1.51	32.79	26.48	162.5	0.368	1441.1
130.0	-1.51	-1.51	32.88	26.48	152.5	0.399	1441.1
140.0	-1.50	-1.50	33.08	26.63	147.5	0.428	1442.3
150.0	-1.46	-1.46	33.12	26.80	132.4	0.453	1443.3
160.0	-1.41	-1.41	33.24	26.91	114.1	0.473	1443.3
170.0	-1.37	-1.37	33.35	27.04	96.9	0.488	1443.3
180.0	-1.33	-1.33	33.45	27.17	81.1	0.498	1443.3
190.0	-1.30	-1.30	33.52	27.25	61.1	0.507	1445.2
200.0	-1.27	-1.27	33.59	27.31	44.9	0.513	1445.2
210.0	-1.24	-1.24	33.64	27.38	32.5	0.516	1445.2
220.0	-1.21	-1.21	33.69	27.47	22.5	0.519	1445.2
230.0	-1.18	-1.18	33.73	27.59	15.3	0.523	1445.2
240.0	-1.15	-1.15	33.77	27.73	10.0	0.526	1445.6
250.0	-1.12	-1.12	33.81	27.89	6.7	0.533	1445.6
260.0	-1.09	-1.09	33.85	27.94	4.1	0.540	1445.7
270.0	-1.06	-1.06	33.89	27.97	2.5	0.547	1445.8
280.0	-1.03	-1.03	33.93	27.99	1.5	0.550	1445.8
290.0	-1.00	-1.00	33.96	27.99	1.3	0.553	1445.9
300.0	-0.97	-0.97	33.98	27.99	1.2	0.556	1446.0
310.0	-0.94	-0.94	34.00	27.99	1.1	0.559	1446.0
320.0	-0.91	-0.91	34.01	27.99	1.1	0.561	1446.0
330.0	-0.88	-0.88	34.02	27.99	1.1	0.564	1446.1
340.0	-0.85	-0.85	34.03	27.99	1.1	0.567	1446.1
350.0	-0.82	-0.82	34.04	27.99	1.1	0.570	1446.1
360.0	-0.79	-0.79	34.05	27.99	1.1	0.573	1446.1
370.0	-0.76	-0.76	34.06	27.99	1.1	0.576	1446.1
380.0	-0.73	-0.73	34.07	27.99	1.1	0.579	1446.1
390.0	-0.70	-0.70	34.08	27.99	1.1	0.580	1446.2
400.0	-0.67	-0.67	34.09	27.99	1.1	0.580	1446.2

HOT NUM = 1  
HOT NUM = 2

DEPTH 3.7  
747.5

TEMP -1.65  
0.22

SALIN 34.88



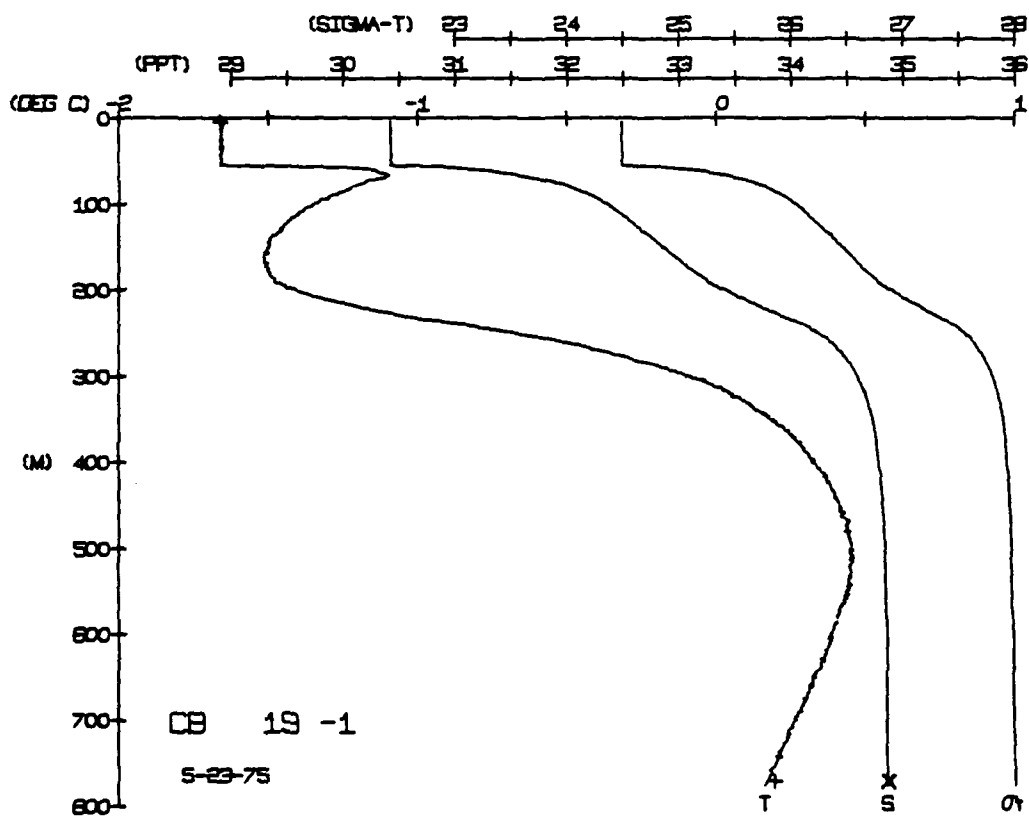
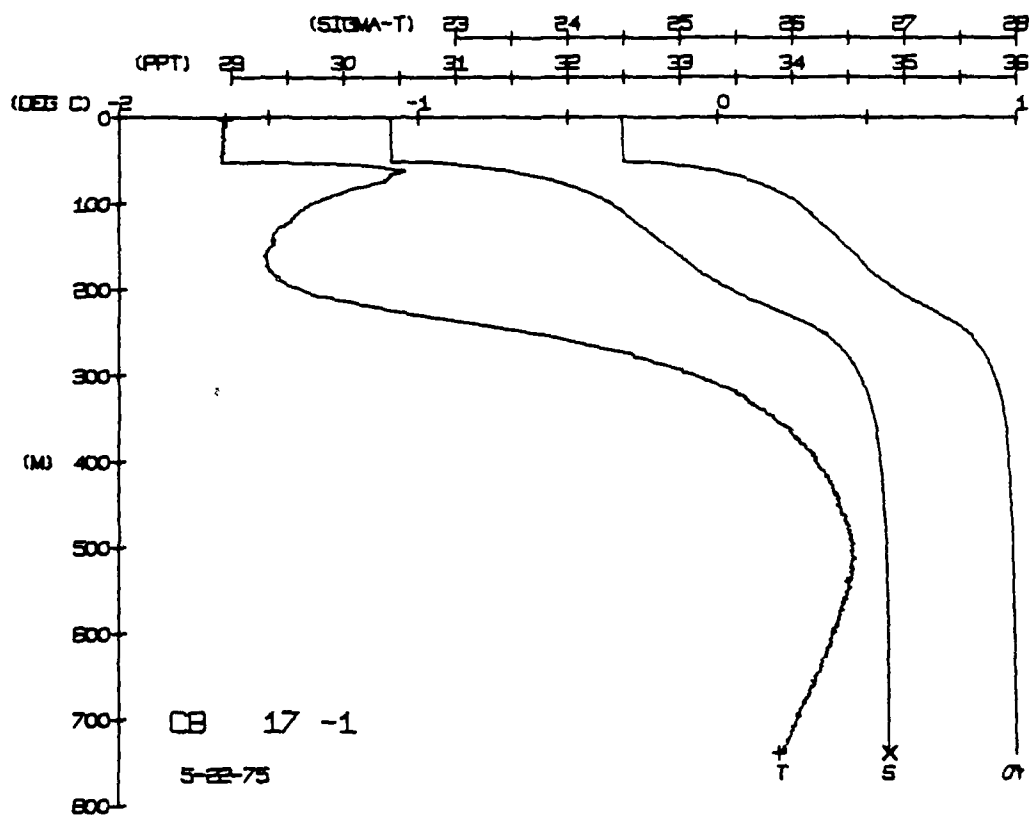


CARIBOU STATION 19(1) CTD 23/MAY/1975 1035 GMT CODE = 3  
LAT = 75.5010N LNG = 144.5672W I.TER = 63. UGER = 117.

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0.0	1.66	1.66	30.43	24.49	345.0	0.000	1435.1
1.0	1.66	1.66	30.43	24.49	345.0	0.016	1435.1
2.0	1.66	1.66	30.43	24.49	345.0	0.032	1435.1
3.0	1.66	1.66	30.43	24.49	345.0	0.069	1435.1
4.0	1.66	1.66	30.43	24.49	345.0	0.087	1435.1
5.0	1.66	1.66	30.43	24.49	345.0	0.104	1435.1
6.0	1.66	1.66	30.43	24.49	345.0	0.129	1435.1
7.0	1.66	1.66	30.43	24.49	345.0	0.156	1435.1
8.0	1.66	1.66	30.43	24.49	345.0	0.174	1435.1
9.0	1.66	1.66	30.43	24.49	345.0	0.191	1435.1
10.0	1.66	1.66	30.43	24.49	345.0	0.207	1435.1
11.0	1.66	1.66	30.43	24.49	345.0	0.224	1435.1
12.0	1.66	1.66	30.43	24.49	345.0	0.239	1435.1
13.0	1.66	1.66	30.43	24.49	345.0	0.257	1435.1
14.0	1.66	1.66	30.43	24.49	345.0	0.279	1435.1
15.0	1.66	1.66	30.43	24.49	345.0	0.298	1435.1
16.0	1.66	1.66	30.43	24.49	345.0	0.318	1435.1
17.0	1.66	1.66	30.43	24.49	345.0	0.335	1435.1
18.0	1.66	1.66	30.43	24.49	345.0	0.351	1435.1
19.0	1.66	1.66	30.43	24.49	345.0	0.368	1435.1
20.0	1.66	1.66	30.43	24.49	345.0	0.383	1435.1
21.0	1.66	1.66	30.43	24.49	345.0	0.408	1435.1
22.0	1.66	1.66	30.43	24.49	345.0	0.435	1435.1
23.0	1.66	1.66	30.43	24.49	345.0	0.468	1435.1
24.0	1.66	1.66	30.43	24.49	345.0	0.486	1435.1
25.0	1.66	1.66	30.43	24.49	345.0	0.499	1435.1
26.0	1.66	1.66	30.43	24.49	345.0	0.508	1435.1
27.0	1.66	1.66	30.43	24.49	345.0	0.512	1435.1
28.0	1.66	1.66	30.43	24.49	345.0	0.519	1435.1
29.0	1.66	1.66	30.43	24.49	345.0	0.524	1435.1
30.0	1.66	1.66	30.43	24.49	345.0	0.529	1435.1
31.0	1.66	1.66	30.43	24.49	345.0	0.535	1435.1
32.0	1.66	1.66	30.43	24.49	345.0	0.543	1435.1
33.0	1.66	1.66	30.43	24.49	345.0	0.549	1435.1
34.0	1.66	1.66	30.43	24.49	345.0	0.555	1435.1
35.0	1.66	1.66	30.43	24.49	345.0	0.558	1435.1
36.0	1.66	1.66	30.43	24.49	345.0	0.564	1435.1
37.0	1.66	1.66	30.43	24.49	345.0	0.567	1435.1
38.0	1.66	1.66	30.43	24.49	345.0	0.572	1435.1
39.0	1.66	1.66	30.43	24.49	345.0	0.577	1435.1
40.0	1.66	1.66	30.43	24.49	345.0	0.581	1435.1
41.0	1.66	1.66	30.43	24.49	345.0	0.586	1435.1
42.0	1.66	1.66	30.43	24.49	345.0	0.588	1435.1
43.0	1.66	1.66	30.43	24.49	345.0	0.591	1435.1

HOT NUM = 1  
COT NUM = 2  
2.8  
738.1

TEMP.	SALIN
-1.66	34.88
0.20	

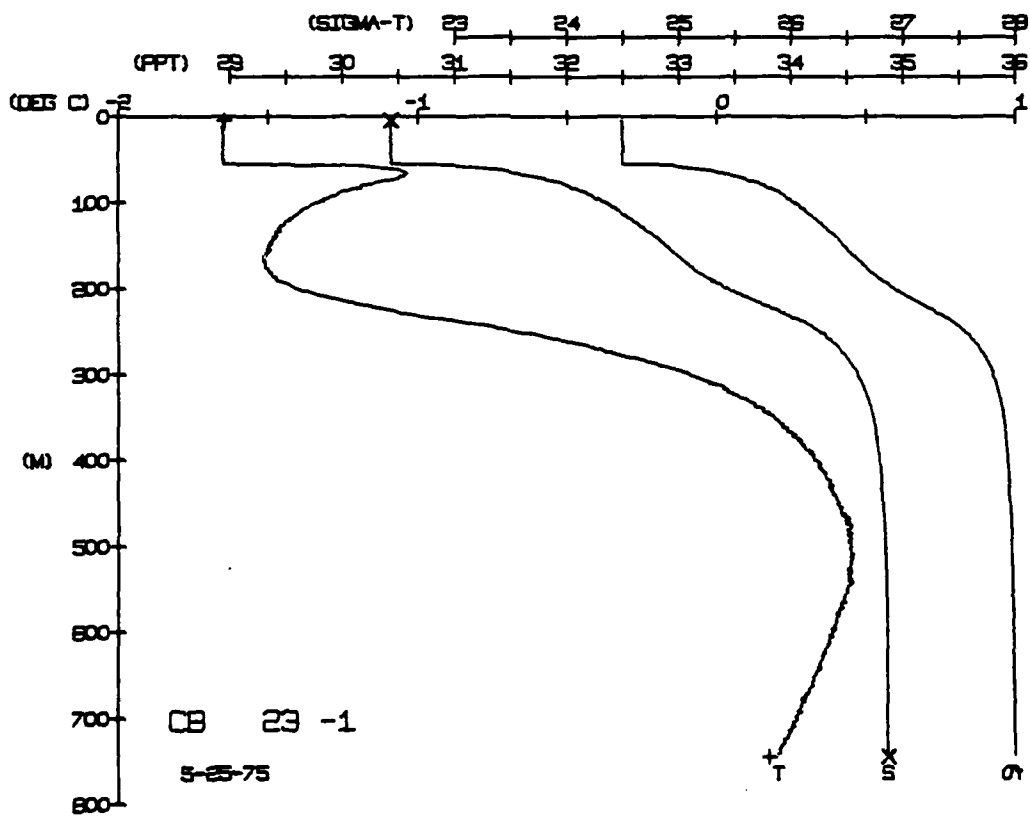
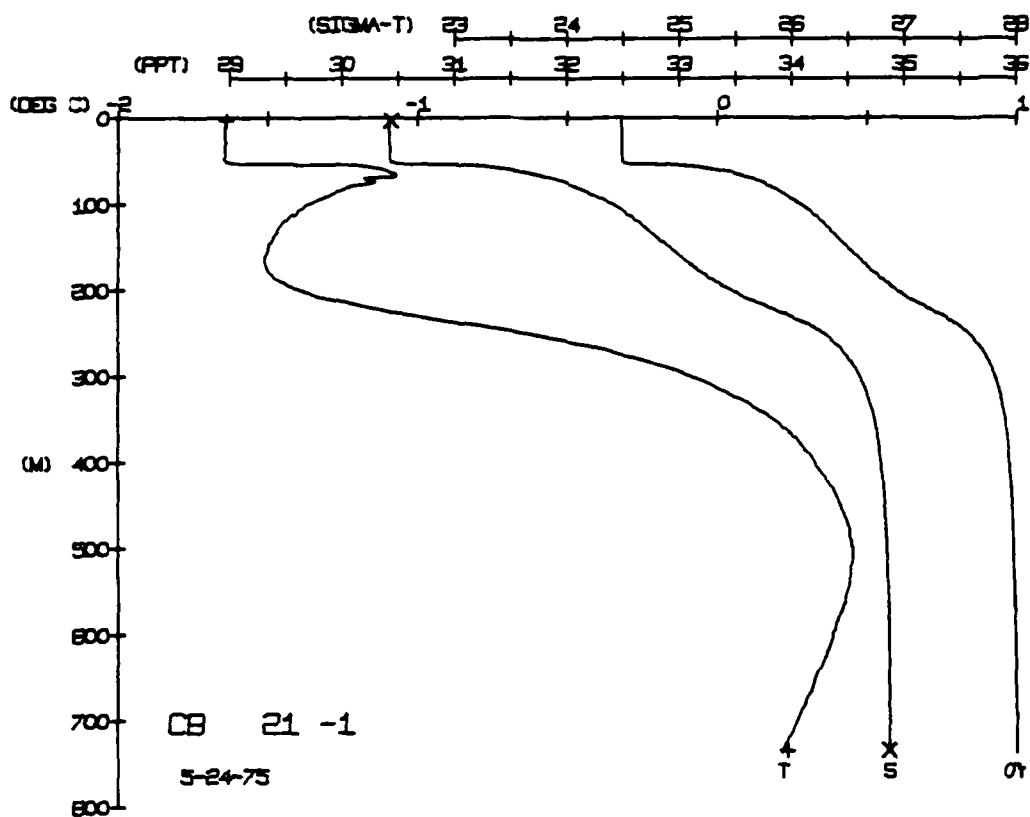


CARIBOU STATION 21(1) CTD 24/MAY/1975 1815 GMT CUDF. = 2  
LAT = 75.4851N LRG = 144.5070W LTER = 1. LGR = 2.  
AIR TEMP = HADRM = 1030.0 WIND = SPEED =

CARIBOU STATION 23(1) CTD 25/MAY/1975 1815 GMT CDDP = 3  
LAT = 75.5056N LNG = 144.5620W LTER = 2. LGER = 1.  
AIR TEMP = -11.0 BAROM = 1027.8 WIND = 123.9 SPEED = 59.4

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.0	-1.64	-1.64	30.41	24.48	346.1	0.000	1435.223
3.0	-1.64	-1.64	30.41	24.48	346.0	0.013	1435.223
10.0	-1.64	-1.64	30.41	24.48	345.9	0.017	1435.223
20.0	-1.64	-1.64	30.42	24.48	345.7	0.035	1435.223
30.0	-1.64	-1.64	30.42	24.48	345.6	0.070	1435.223
40.0	-1.64	-1.64	30.42	24.49	345.4	0.104	1435.223
50.0	-1.64	-1.64	30.42	24.49	345.2	0.122	1435.223
60.0	-1.120	-1.120	31.09	25.30	294.8	0.157	1439.100
70.0	-1.108	-1.108	31.67	25.63	249.8	0.190	1440.578
80.0	-1.123	-1.123	32.06	25.80	216.3	0.210	1440.578
90.0	-1.130	-1.130	32.23	26.07	206.3	0.253	1440.578
100.0	-1.147	-1.147	32.52	26.34	193.7	0.274	1440.578
110.0	-1.147	-1.147	32.72	26.34	176.3	0.311	1441.150
120.0	-1.147	-1.147	32.80	26.34	161.3	0.349	1441.150
130.0	-1.150	-1.150	32.90	26.57	153.5	0.365	1441.150
140.0	-1.151	-1.151	33.00	26.57	146.1	0.381	1442.077
150.0	-1.151	-1.151	33.10	26.65	138.7	0.414	1442.077
160.0	-1.149	-1.149	33.32	26.73	130.7	0.437	1443.297
170.0	-1.146	-1.146	33.45	26.83	121.1	0.449	1443.297
180.0	-1.139	-1.139	33.60	26.94	111.6	0.460	1444.780
190.0	-1.131	-1.131	33.80	27.05	86.2	0.469	1444.780
200.0	-1.116	-1.116	33.99	27.20	72.9	0.477	1447.253
210.0	-1.100	-1.100	34.16	27.36	59.3	0.484	1447.253
220.0	-0.83	-0.83	34.29	27.48	51.3	0.489	1449.333
230.0	-0.50	-0.50	34.45	27.58	45.2	0.494	1450.333
240.0	-0.37	-0.37	34.51	27.64	39.8	0.498	1451.299
250.0	-0.26	-0.26	34.56	27.74	35.8	0.506	1451.622
260.0	-0.17	-0.17	34.64	27.83	32.1	0.509	1452.271
270.0	-0.09	-	34.64	27.83	29.6	0.512	1453.271
280.0	-0.02	-	34.64	27.86	25.3	0.514	1454.271
290.0	0.03	0.02	34.67	27.88	22.5	0.519	1454.271
300.0	0.10	0.08	34.72	27.89	22.2	0.521	1455.278
310.0	0.14	0.13	34.74	27.91	21.9	0.525	1455.278
320.0	0.19	0.17	34.74	27.92	19.0	0.529	1456.278
330.0	0.26	0.24	34.77	27.94	17.0	0.533	1456.278
340.0	0.31	0.29	34.79	27.95	17.0	0.533	1457.278
350.0	0.35	0.33	34.80	27.97	16.2	0.536	1457.278
360.0	0.39	0.37	34.82	27.97	15.6	0.536	1458.278
370.0	0.41	0.39	34.83	27.97	15.1	0.542	1458.278
380.0	0.44	0.42	34.84	27.98	14.5	0.548	1459.278
390.0	0.45	0.43	34.85	27.99	14.3	0.551	1459.278
400.0	0.45	0.43	34.86	27.99	13.8	0.554	1459.278
410.0	0.43	0.41	34.86	27.99	13.4	0.554	1460.278
420.0	0.40	0.39	34.86	27.99	13.1	0.557	1460.278
430.0	0.38	0.37	34.87	28.00	12.6	0.559	1460.278
440.0	0.34	0.35	34.87	28.00	12.0	0.562	1461.278
450.0	0.36	0.33	34.87	28.01	12.0	0.564	1461.278
460.0	0.33	0.30	34.88	28.01	11.4	0.566	1461.278
470.0	0.31	0.28	34.88	28.01	11.1	0.569	1461.278
480.0	0.28	0.25	34.88	28.01	11.0	0.571	1462.000
490.0	0.26	0.23	34.88	28.01	10.7	0.573	1462.000
500.0	0.23	0.19	34.88	28.02	10.7	0.576	1462.223
510.0	0.22	0.19	34.88	28.02	10.7	0.576	1462.223

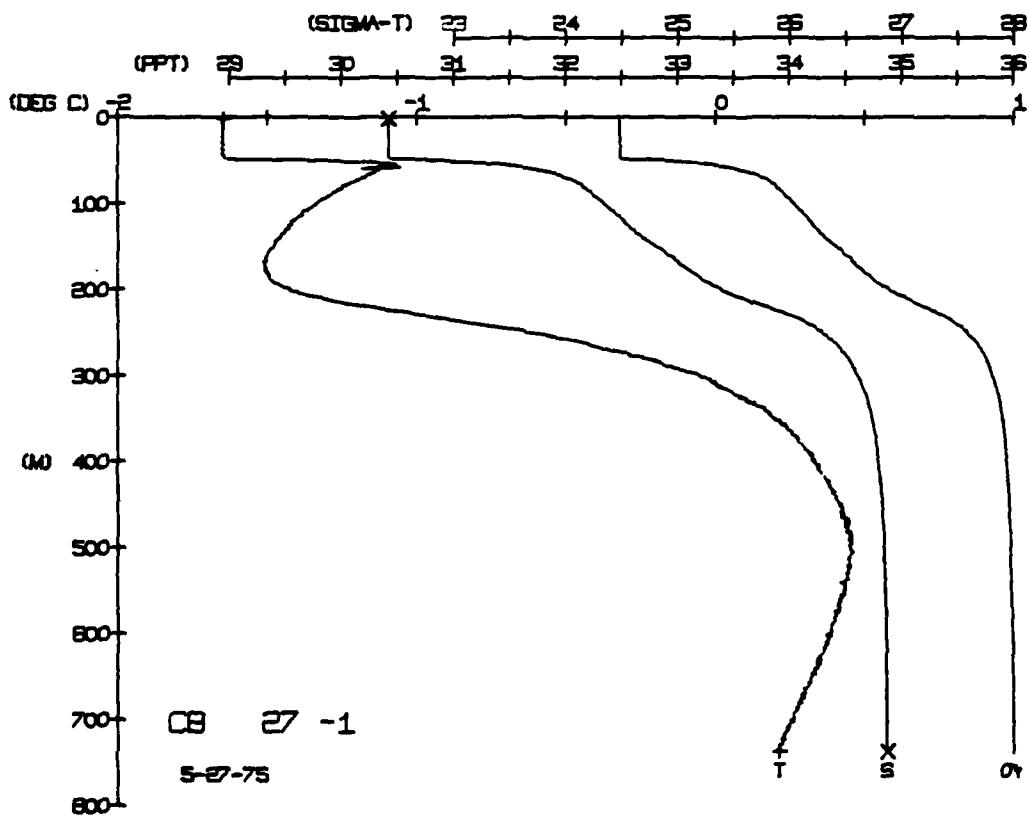
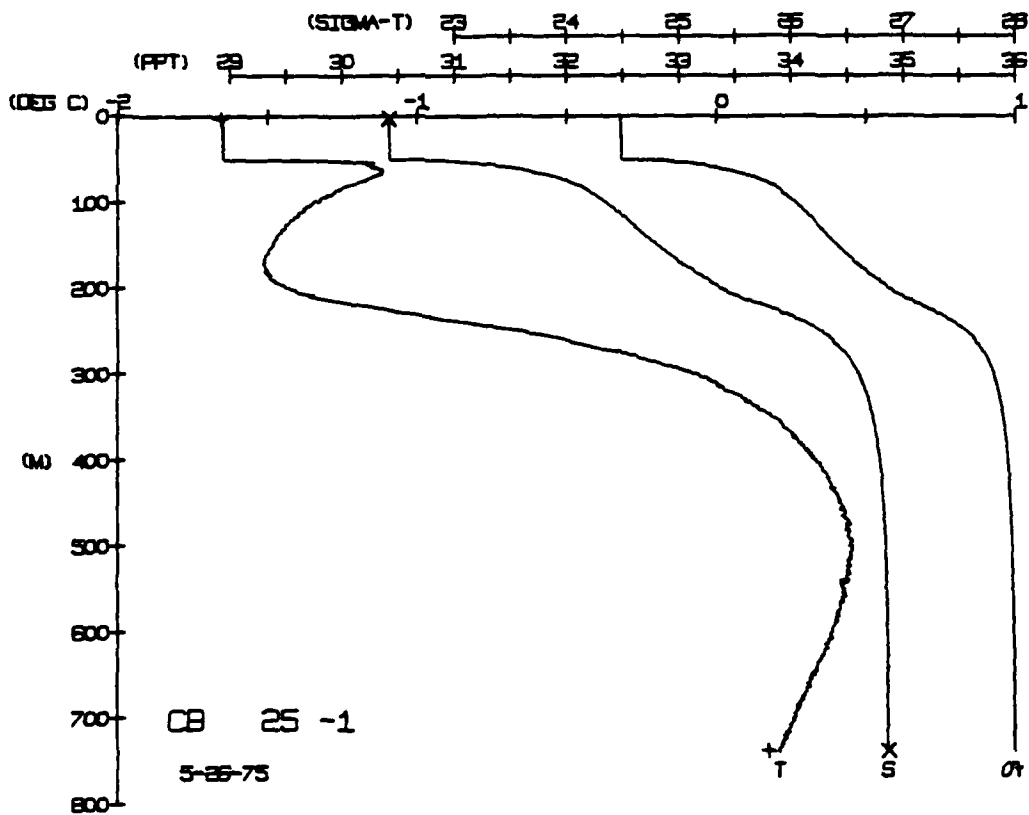
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	5	1.655	30.42	24.49	345.4	0.000	1435.
0.5	5	1.655	30.42	24.49	345.3	0.017	1435.
1	5	1.655	30.43	24.49	344.9	0.035	1435.
1.5	5	1.655	30.43	24.49	344.6	0.069	1435.
2	5	1.655	30.43	24.49	344.5	0.087	1435.
2.5	5	1.655	30.43	24.49	344.4	0.120	1435.
3	5	1.655	30.43	24.49	344.4	0.154	1435.
3.5	5	1.655	30.43	24.49	344.3	0.174	1435.
4	5	1.655	30.43	24.50	344.3	0.191	1436.
4.5	5	1.655	30.43	24.50	344.3	0.207	1436.
5	5	1.655	30.43	24.50	344.3	0.223	1439.
5.5	5	1.655	30.43	24.50	344.3	0.233	1440.
6	5	1.655	30.43	24.50	344.3	0.257	1440.
6.5	5	1.655	30.43	24.50	344.3	0.279	1440.
7	5	1.655	30.43	24.50	344.3	0.300	1440.
7.5	5	1.655	30.43	24.50	344.3	0.317	1441.
8	5	1.655	30.43	24.50	344.3	0.335	1441.
8.5	5	1.655	30.43	24.50	344.3	0.355	1441.
9	5	1.655	30.43	24.50	344.3	0.384	1441.
9.5	5	1.655	30.43	24.50	344.3	0.403	1441.
10	5	1.655	30.43	24.50	344.3	0.412	1442.
10.5	5	1.655	30.43	24.50	344.3	0.432	1442.
11	5	1.655	30.43	24.50	344.3	0.457	1443.
11.5	5	1.655	30.43	24.50	344.3	0.469	1445.
12	5	1.655	30.43	24.50	344.3	0.477	1445.
12.5	5	1.655	30.43	24.50	344.3	0.485	1446.
13	5	1.655	30.43	24.50	344.3	0.492	1446.
13.5	5	1.655	30.43	24.50	344.3	0.498	1448.
14	5	1.655	30.43	24.50	344.3	0.507	1450.
14.5	5	1.655	30.43	24.50	344.3	0.515	1451.
15	5	1.655	30.43	24.50	344.3	0.518	1452.
15.5	5	1.655	30.43	24.50	344.3	0.521	1453.
16	5	1.655	30.43	24.50	344.3	0.523	1454.
16.5	5	1.655	30.43	24.50	344.3	0.526	1454.
17	5	1.655	30.43	24.50	344.3	0.530	1455.
17.5	5	1.655	30.43	24.50	344.3	0.533	1455.
18	5	1.655	30.43	24.50	344.3	0.535	1456.
18.5	5	1.655	30.43	24.50	344.3	0.538	1456.
19	5	1.655	30.43	24.50	344.3	0.542	1457.
19.5	5	1.655	30.43	24.50	344.3	0.545	1457.
20	5	1.655	30.43	24.50	344.3	0.547	1458.
20.5	5	1.655	30.43	24.50	344.3	0.550	1458.
21	5	1.655	30.43	24.50	344.3	0.555	1459.
21.5	5	1.655	30.43	24.50	344.3	0.558	1459.
22	5	1.655	30.43	24.50	344.3	0.560	1459.
22.5	5	1.655	30.43	24.50	344.3	0.563	1460.
23	5	1.655	30.43	24.50	344.3	0.566	1460.
23.5	5	1.655	30.43	24.50	344.3	0.569	1460.
24	5	1.655	30.43	24.50	344.3	0.571	1461.
24.5	5	1.655	30.43	24.50	344.3	0.574	1461.
25	5	1.655	30.43	24.50	344.3	0.576	1461.
25.5	5	1.655	30.43	24.50	344.3	0.58	



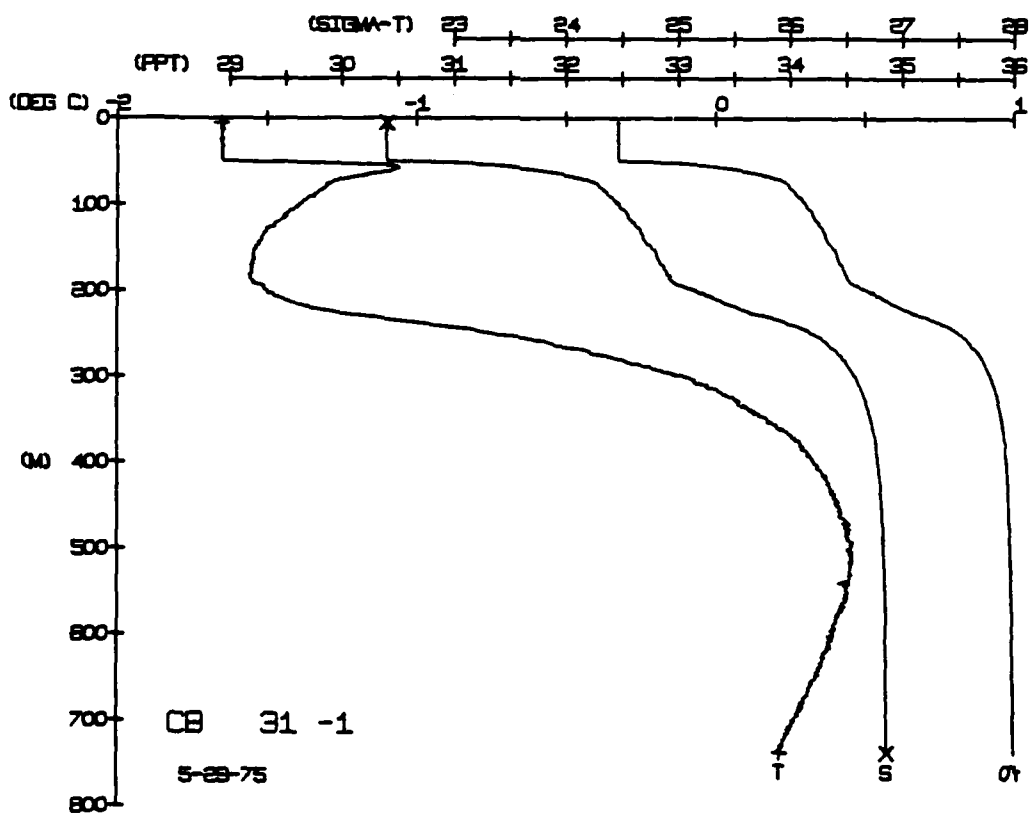
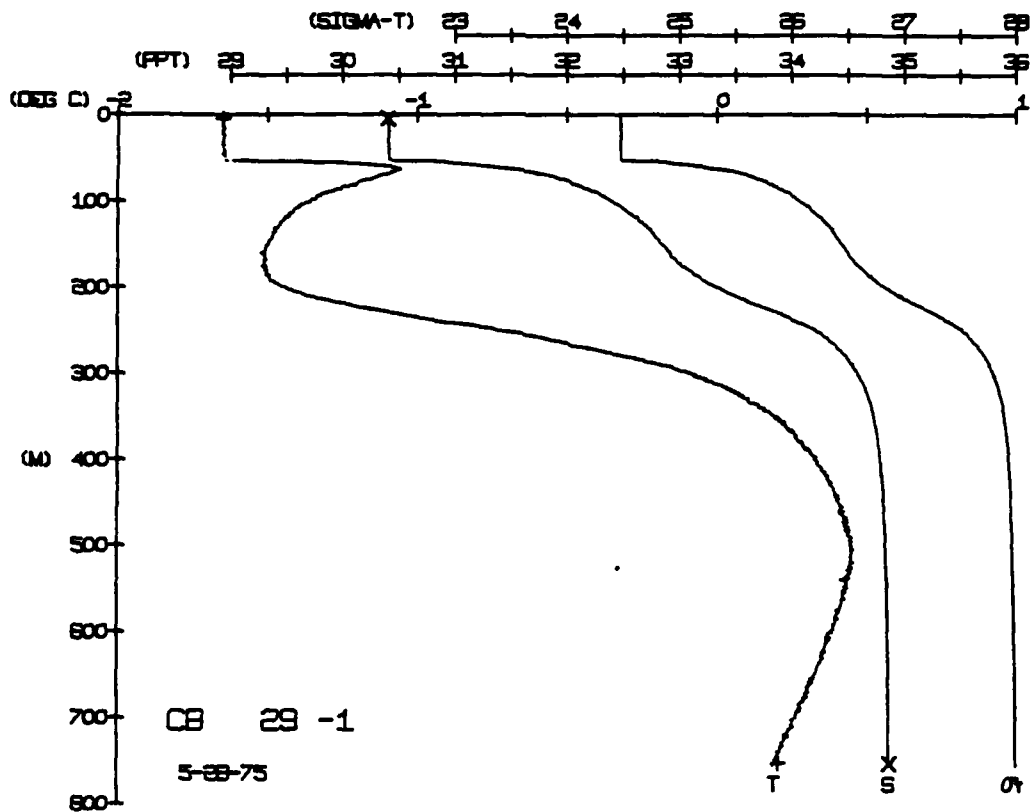
CAIRHOU STATION 27(1) CTD 27/MAY/1975 1800 GMT CODE = 3  
LAT = 75.5047N LONG = 145.2366W I.TER = 1. LGR = 2.  
AIR TEMP = -11.7 BAROM = 1026.5 WIND = 85.4 SPEED = 77.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.4	65	65	30.422	24.48	345.7	0.000	1435.1
0.5	65	65	30.422	24.49	345.7	0.017	1435.2
1.0	65	65	30.422	24.49	345.4	0.032	1435.3
1.5	65	65	30.422	24.49	345.3	0.070	1435.4
2.0	65	65	30.422	24.49	345.3	0.084	1435.5
2.5	65	65	30.422	24.49	344.7	0.104	1435.5
3.0	65	65	30.422	24.49	344.7	0.129	1435.5
4.0	65	65	30.422	24.49	344.6	0.176	1435.5
5.0	65	65	31.144	22.55	342.0	0.194	1433.9
6.0	65	65	31.144	22.55	270.7	0.207	1440.0
7.0	65	65	31.144	22.55	237.9	0.230	1440.0
8.0	65	65	32.222	22.55	210.7	0.274	1440.0
9.0	65	65	32.222	22.55	197.5	0.314	1441.1
10.0	65	65	32.222	22.55	192.6	0.351	1441.1
11.0	65	65	32.222	22.55	179.2	0.359	1441.1
12.0	65	65	32.222	22.55	165.3	0.365	1441.1
13.0	65	65	32.222	22.55	154.9	0.401	1442.2
14.0	65	65	32.222	22.55	137.1	0.444	1442.2
15.0	65	65	32.222	22.55	121.7	0.494	1442.2
16.0	65	65	32.222	22.55	105.5	0.547	1442.2
17.0	65	65	32.222	22.55	94.3	0.593	1442.2
18.0	65	65	32.222	22.55	83.6	0.640	1442.2
19.0	65	65	32.222	22.55	73.6	0.683	1442.2
20.0	65	65	32.222	22.55	63.2	0.729	1442.2
21.0	65	65	32.222	22.55	52.3	0.778	1442.2
22.0	65	65	32.222	22.55	40.3	0.828	1450.0
23.0	65	65	34.444	22.77	32.9	0.879	1451.2
24.0	65	65	34.444	22.77	27.1	0.931	1451.2
25.0	65	65	34.444	22.77	22.5	0.984	1451.2
26.0	65	65	34.444	22.77	18.1	1.038	1451.2
27.0	65	65	34.444	22.77	13.6	1.093	1451.2
28.0	65	65	34.444	22.77	9.3	1.149	1451.2
29.0	65	65	34.444	22.77	5.0	1.206	1451.2
30.0	65	65	34.444	22.77	0.9	1.264	1451.2
31.0	65	65	34.444	22.77	0.1	1.323	1451.2
32.0	65	65	34.444	22.77	0.0	1.382	1451.2
33.0	65	65	34.444	22.77	0.0	1.442	1451.2
34.0	65	65	34.444	22.77	0.0	1.502	1451.2
35.0	65	65	34.444	22.77	0.0	1.562	1451.2
36.0	65	65	34.444	22.77	0.0	1.622	1451.2
37.0	65	65	34.444	22.77	0.0	1.682	1451.2
38.0	65	65	34.444	22.77	0.0	1.742	1451.2
39.0	65	65	34.444	22.77	0.0	1.802	1451.2
40.0	65	65	34.444	22.77	0.0	1.862	1451.2
41.0	65	65	34.444	22.77	0.0	1.922	1451.2
42.0	65	65	34.444	22.77	0.0	1.982	1451.2
43.0	65	65	34.444	22.77	0.0	2.042	1451.2
44.0	65	65	34.444	22.77	0.0	2.102	1451.2
45.0	65	65	34.444	22.77	0.0	2.162	1451.2
46.0	65	65	34.444	22.77	0.0	2.222	1451.2
47.0	65	65	34.444	22.77	0.0	2.282	1451.2
4							

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	5	5	30.41	24.48	346.4	0	1435.1
0.5	5	5	30.41	24.48	346.4	0	1435.1
1	5	5	30.41	24.48	346.4	0	1435.1
1.5	5	5	30.41	24.48	346.4	0	1435.1
2	5	5	30.41	24.48	346.4	0	1435.1
2.5	5	5	30.41	24.48	346.4	0	1435.1
3	5	5	30.41	24.48	346.4	0	1435.1
3.5	5	5	30.41	24.48	346.4	0	1435.1
4	5	5	30.41	24.48	346.4	0	1435.1
4.5	5	5	30.41	24.48	346.4	0	1435.1
5	5	5	30.41	24.48	346.4	0	1435.1
5.5	5	5	30.41	24.48	346.4	0	1435.1
6	5	5	30.41	24.48	346.4	0	1435.1
6.5	5	5	30.41	24.48	346.4	0	1435.1
7	5	5	30.41	24.48	346.4	0	1435.1
7.5	5	5	30.41	24.48	346.4	0	1435.1
8	5	5	30.41	24.48	346.4	0	1435.1
8.5	5	5	30.41	24.48	346.4	0	1435.1
9	5	5	30.41	24.48	346.4	0	1435.1
9.5	5	5	30.41	24.48	346.4	0	1435.1
10	5	5	30.41	24.48	346.4	0	1435.1
10.5	5	5	30.41	24.48	346.4	0	1435.1
11	5	5	30.41	24.48	346.4	0	1435.1
11.5	5	5	30.41	24.48	346.4	0	1435.1
12	5	5	30.41	24.48	346.4	0	1435.1
12.5	5	5	30.41	24.48	346.4	0	1435.1
13	5	5	30.41	24.48	346.4	0	1435.1
13.5	5	5	30.41	24.48	346.4	0	1435.1
14	5	5	30.41	24.48	346.4	0	1435.1
14.5	5	5	30.41	24.48	346.4	0	1435.1
15	5	5	30.41	24.48	346.4	0	1435.1
15.5	5	5	30.41	24.48	346.4	0	1435.1
16	5	5	30.41	24.48	346.4	0	1435.1
16.5	5	5	30.41	24.48	346.4	0	1435.1
17	5	5	30.41	24.48	346.4	0	1435.1
17.5	5	5	30.41	24.48	346.4	0	1435.1
18	5	5	30.41	24.48	346.4	0	1435.1
18.5	5	5	30.41	24.48	346.4	0	1435.1
19	5	5	30.41	24.48	346.4	0	1435.1
19.5	5	5	30.41	24.48	346.4	0	1435.1
20	5	5	30.41	24.48	346.4	0	1435.1
20.5	5	5	30.41	24.48	346.4	0	1435.1
21	5	5	30.41	24.48	346.4	0	1435.1
21.5	5	5	30.41	24.48	346.4	0	1435.1
22	5	5	30.41	24.48	346.4	0	1435.1
22.5	5	5	30.41	24.48	346.4	0	1435.1
23	5	5	30.41	24.48	346.4	0	1435.1
23.5	5	5	30.41	24.48	346.4	0	1435.1
24	5	5	30.41	24.48	346.4	0	1435.1
24.5	5	5	30.41	24.48	346.4	0	1435.1
25	5	5	30.41	24.48	346.4	0	1435.1
25.5	5	5	30.41	24.48	346.4	0	1435.1
26	5	5	30.41	24.48	346.4	0	1435.1
26.5	5	5	30.41	24.48	346.4	0	1435.1
27	5	5	30.41	24.48	346.4	0	1435.1
27.5	5	5	30.41	24.48	346.4	0	1435.1
28							









CARINHUU STATION 33(1) CTD 30/MAY/1975 1800 GMT CODE = 3  
LAT = 75.6679N LONG = 146.1186E LTER = 0. LGER = 0.  
AIR TEMP = 1037.7 WIND = 0. SPEED = 0.

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0.7	-1.64	-1.64	30.38	24.45	348.6	0.000	1435.1
4.0	-1.64	-1.64	30.38	24.46	348.5	0.018	1435.2
5.0	-1.64	-1.64	30.38	24.46	348.5	0.018	1435.3
10.0	-1.64	-1.64	30.38	24.46	348.4	0.053	1435.4
15.0	-1.64	-1.64	30.38	24.46	348.4	0.053	1435.5
20.0	-1.64	-1.64	30.38	24.46	348.2	0.070	1435.6
25.0	-1.64	-1.64	30.38	24.46	348.2	0.088	1435.7
30.0	-1.64	-1.64	30.38	24.46	348.0	0.105	1435.8
35.0	-1.64	-1.64	30.38	24.46	347.9	0.123	1435.9
40.0	-1.64	-1.64	30.38	24.46	347.7	0.140	1436.0
45.0	-1.64	-1.64	30.38	24.46	347.7	0.158	1436.1
50.0	-1.64	-1.64	30.38	24.46	347.5	0.175	1436.2
55.0	-1.64	-1.64	30.38	24.46	347.5	0.193	1436.3
60.0	-1.63	-1.63	30.39	24.46	347.3	0.209	1436.4
65.0	-1.63	-1.63	30.39	24.46	347.3	0.224	1436.5
70.0	-1.63	-1.63	30.39	24.46	347.3	0.236	1436.6
80.0	-1.63	-1.63	30.39	24.46	347.3	0.251	1436.7
90.0	-1.63	-1.63	30.39	24.46	347.3	0.266	1436.8
100.0	-1.63	-1.63	30.39	24.46	347.3	0.281	1436.9
110.0	-1.63	-1.63	30.39	24.46	347.3	0.296	1437.0
120.0	-1.63	-1.63	30.39	24.46	347.3	0.311	1437.1
130.0	-1.63	-1.63	30.39	24.46	347.3	0.326	1437.2
140.0	-1.63	-1.63	30.39	24.46	347.3	0.341	1437.3
150.0	-1.63	-1.63	30.39	24.46	347.3	0.356	1437.4
160.0	-1.63	-1.63	30.39	24.46	347.3	0.371	1437.5
170.0	-1.63	-1.63	30.39	24.46	347.3	0.386	1437.6
180.0	-1.63	-1.63	30.39	24.46	347.3	0.401	1437.7
190.0	-1.63	-1.63	30.39	24.46	347.3	0.416	1437.8
200.0	-1.63	-1.63	30.39	24.46	347.3	0.431	1437.9
210.0	-1.63	-1.63	30.39	24.46	347.3	0.446	1438.0
220.0	-1.63	-1.63	30.39	24.46	347.3	0.461	1438.1
230.0	-1.63	-1.63	30.39	24.46	347.3	0.476	1438.2
240.0	-1.63	-1.63	30.39	24.46	347.3	0.491	1438.3
250.0	-1.63	-1.63	30.39	24.46	347.3	0.506	1438.4
260.0	-1.63	-1.63	30.39	24.46	347.3	0.521	1438.5
270.0	-1.63	-1.63	30.39	24.46	347.3	0.536	1438.6
280.0	-1.63	-1.63	30.39	24.46	347.3	0.551	1438.7
290.0	-1.63	-1.63	30.39	24.46	347.3	0.566	1438.8
300.0	-1.63	-1.63	30.39	24.46	347.3	0.581	1438.9
310.0	-1.63	-1.63	30.39	24.46	347.3	0.596	1439.0
320.0	-1.63	-1.63	30.39	24.46	347.3	0.611	1439.1
330.0	-1.63	-1.63	30.39	24.46	347.3	0.626	1439.2
340.0	-1.63	-1.63	30.39	24.46	347.3	0.641	1439.3
350.0	-1.63	-1.63	30.39	24.46	347.3	0.656	1439.4
360.0	-1.63	-1.63	30.39	24.46	347.3	0.671	1439.5
370.0	-1.63	-1.63	30.39	24.46	347.3	0.686	1439.6
380.0	-1.63	-1.63	30.39	24.46	347.3	0.701	1439.7
390.0	-1.63	-1.63	30.39	24.46	347.3	0.716	1439.8
400.0	-1.63	-1.63	30.39	24.46	347.3	0.731	1439.9
410.0	-1.63	-1.63	30.39	24.46	347.3	0.746	1440.0
420.0	-1.63	-1.63	30.39	24.46	347.3	0.761	1440.1
430.0	-1.63	-1.63	30.39	24.46	347.3	0.776	1440.2
440.0	-1.63	-1.63	30.39	24.46	347.3	0.791	1440.3
450.0	-1.63	-1.63	30.39	24.46	347.3	0.806	1440.4
460.0	-1.63	-1.63	30.39	24.46	347.3	0.821	1440.5
470.0	-1.63	-1.63	30.39	24.46	347.3	0.836	1440.6
480.0	-1.63	-1.63	30.39	24.46	347.3	0.851	1440.7
490.0	-1.63	-1.63	30.39	24.46	347.3	0.866	1440.8
500.0	-1.63	-1.63	30.39	24.46	347.3	0.881	1440.9
510.0	-1.63	-1.63	30.39	24.46	347.3	0.896	1441.0
520.0	-1.63	-1.63	30.39	24.46	347.3	0.911	1441.1
530.0	-1.63	-1.63	30.39	24.46	347.3	0.926	1441.2
540.0	-1.63	-1.63	30.39	24.46	347.3	0.941	1441.3
550.0	-1.63	-1.63	30.39	24.46	347.3	0.956	1441.4
560.0	-1.63	-1.63	30.39	24.46	347.3	0.971	1441.5
570.0	-1.63	-1.63	30.39	24.46	347.3	0.986	1441.6
580.0	-1.63	-1.63	30.39	24.46	347.3	0.999	1441.7
590.0	-1.63	-1.63	30.39	24.46	347.3	1.012	1441.8
600.0	-1.63	-1.63	30.39	24.46	347.3	1.025	1441.9
610.0	-1.63	-1.63	30.39	24.46	347.3	1.038	1442.0
620.0	-1.63	-1.63	30.39	24.46	347.3	1.051	1442.1
630.0	-1.63	-1.63	30.39	24.46	347.3	1.064	1442.2
640.0	-1.63	-1.63	30.39	24.46	347.3	1.077	1442.3
650.0	-1.63	-1.63	30.39	24.46	347.3	1.090	1442.4
660.0	-1.63	-1.63	30.39	24.46	347.3	1.103	1442.5
670.0	-1.63	-1.63	30.39	24.46	347.3	1.116	1442.6
680.0	-1.63	-1.63	30.39	24.46	347.3	1.129	1442.7
690.0	-1.63	-1.63	30.39	24.46	347.3	1.142	1442.8
700.0	-1.63	-1.63	30.39	24.46	347.3	1.155	1442.9
710.0	-1.63	-1.63	30.39	24.46	347.3	1.168	1443.0
720.0	-1.63	-1.63	30.39	24.46	347.3	1.181	1443.1
730.0	-1.63	-1.63	30.39	24.46	347.3	1.194	1443.2
740.0	-1.63	-1.63	30.39	24.46	347.3	1.207	1443.3
750.0	-1.63	-1.63	30.39	24.46	347.3	1.220	1443.4
760.0	-1.63	-1.63	30.39	24.46	347.3	1.233	1443.5
770.0	-1.63	-1.63	30.39	24.46	347.3	1.246	1443.6
780.0	-1.63	-1.63	30.39	24.46	347.3	1.259	1443.7
790.0	-1.63	-1.63	30.39	24.46	347.3	1.272	1443.8
800.0	-1.63	-1.63	30.39	24.46	347.3	1.285	1443.9
810.0	-1.63	-1.63	30.39	24.46	347.3	1.298	1444.0
820.0	-1.63	-1.63	30.39	24.46	347.3	1.311	1444.1
830.0	-1.63	-1.63	30.39	24.46	347.3	1.324	1444.2
840.0	-1.63	-1.63	30.39	24.46	347.3	1.337	1444.3
850.0	-1.63	-1.63	30.39	24.46	347.3	1.350	1444.4
860.0	-1.63	-1.63	30.39	24.46	347.3	1.363	1444.5
870.0	-1.63	-1.63	30.39	24.46	347.3	1.376	1444.6
880.0	-1.63	-1.63	30.39	24.46	347.3	1.389	1444.7
890.0	-1.63	-1.63	30.39	24.46	347.3	1.402	1444.8
900.0	-1.63	-1.63	30.39	24.46	347.3	1.415	1444.9
910.0	-1.63	-1.63	30.39	24.46	347.3	1.428	1445.0
920.0	-1.63	-1.63	30.39	24.46	347.3	1.441	1445.1
930.0	-1.63	-1.63	30.39	24.46	347.3	1.454	1445.2
940.0	-1.63	-1.63	30.39	24.46	347.3	1.467	1445.3
950.0	-1.63	-1.63	30.39	24.46	347.3	1.480	1445.4
960.0	-1.63	-1.63	30.39	24.46	347.3	1.493	1445.5
970.0	-1.63	-1.63	30.39	24.46	347.3	1.506	1445.6
980.0	-1.63	-1.63	30.39	24.46	347.3	1.519	1445.7
990.0	-1.63	-1.63	30.39	24.46	347.3	1.532	1445.8
1000.0	-1.63	-1.63	30.39	24.46	347.3	1.545	1445.9

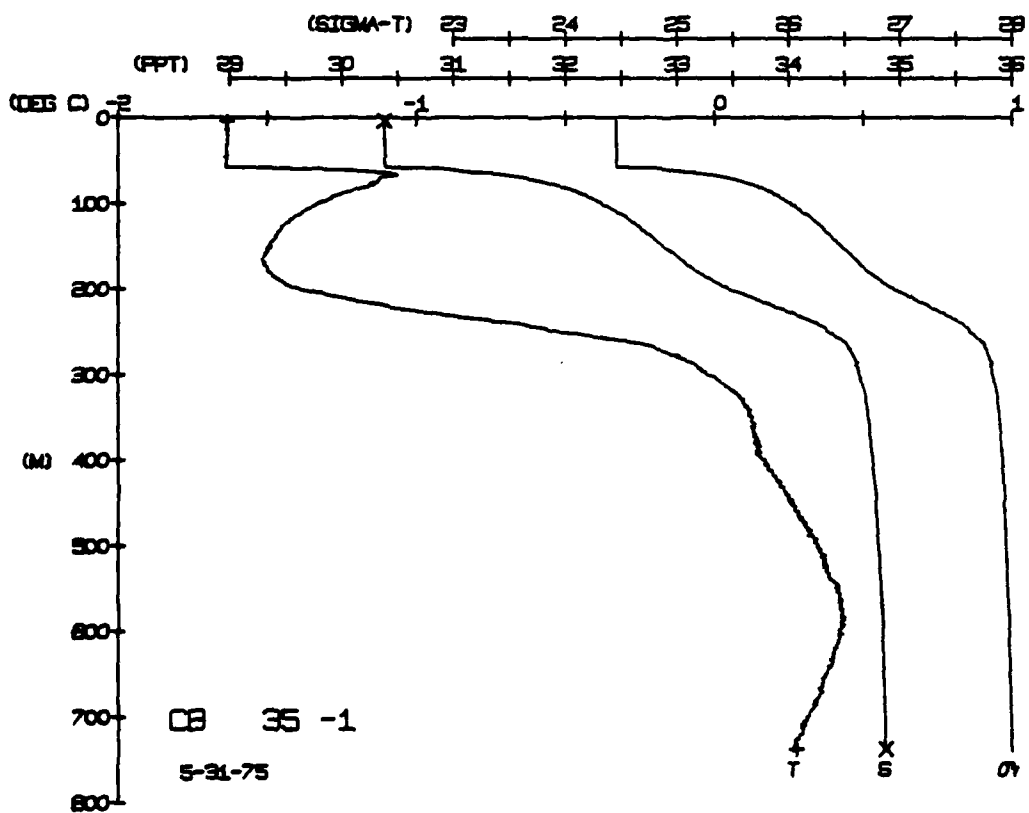
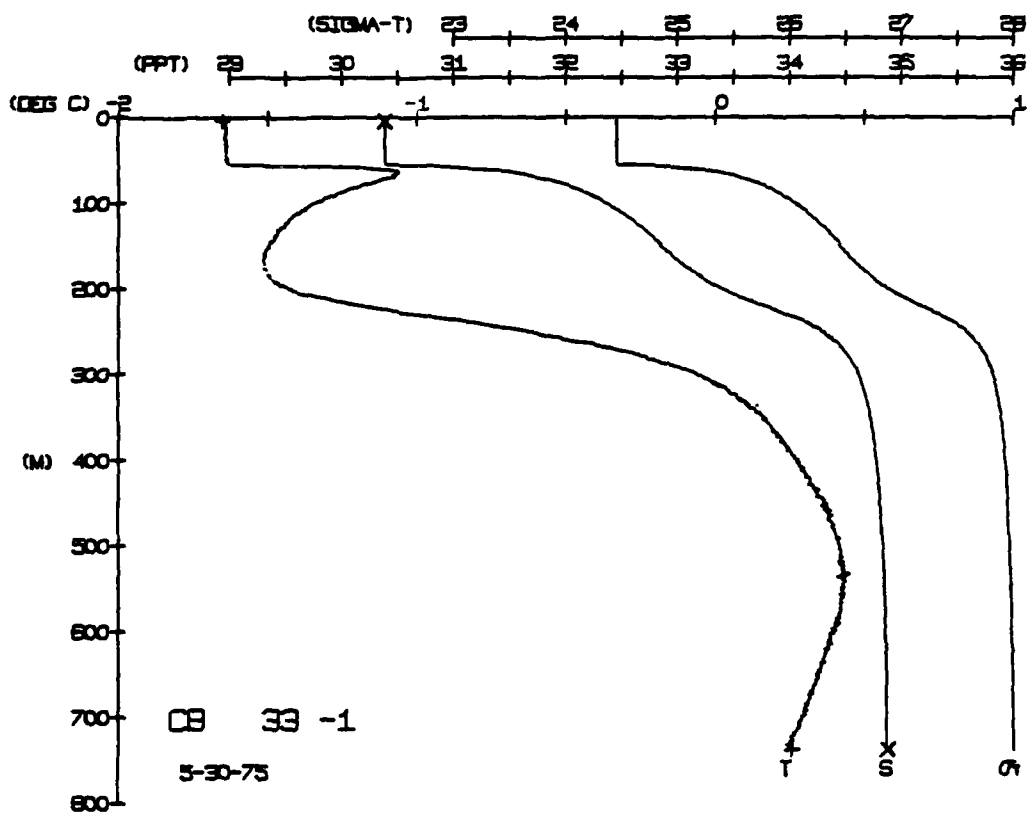
HUT NUM = 1  
HUT NUM = 2

DEPTH 5.0  
TEMP. -1.65  
SALIN 30.38

DEPTH 736.7  
TEMP. -1.63  
SALIN 34.89

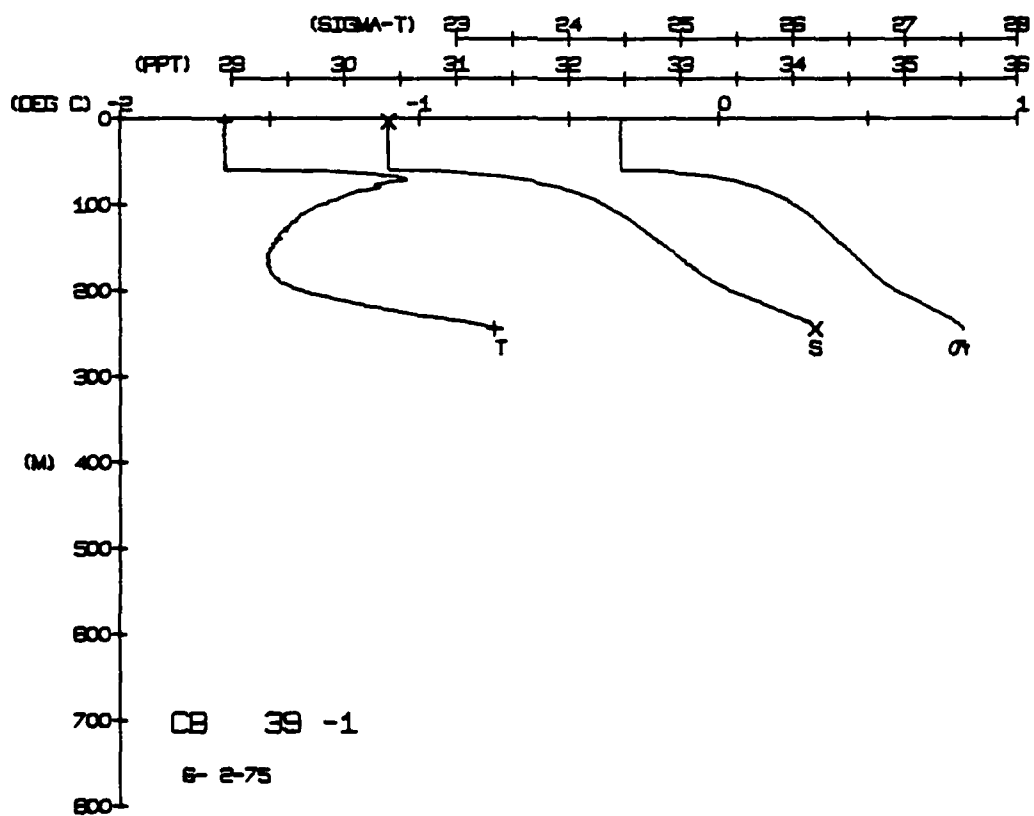
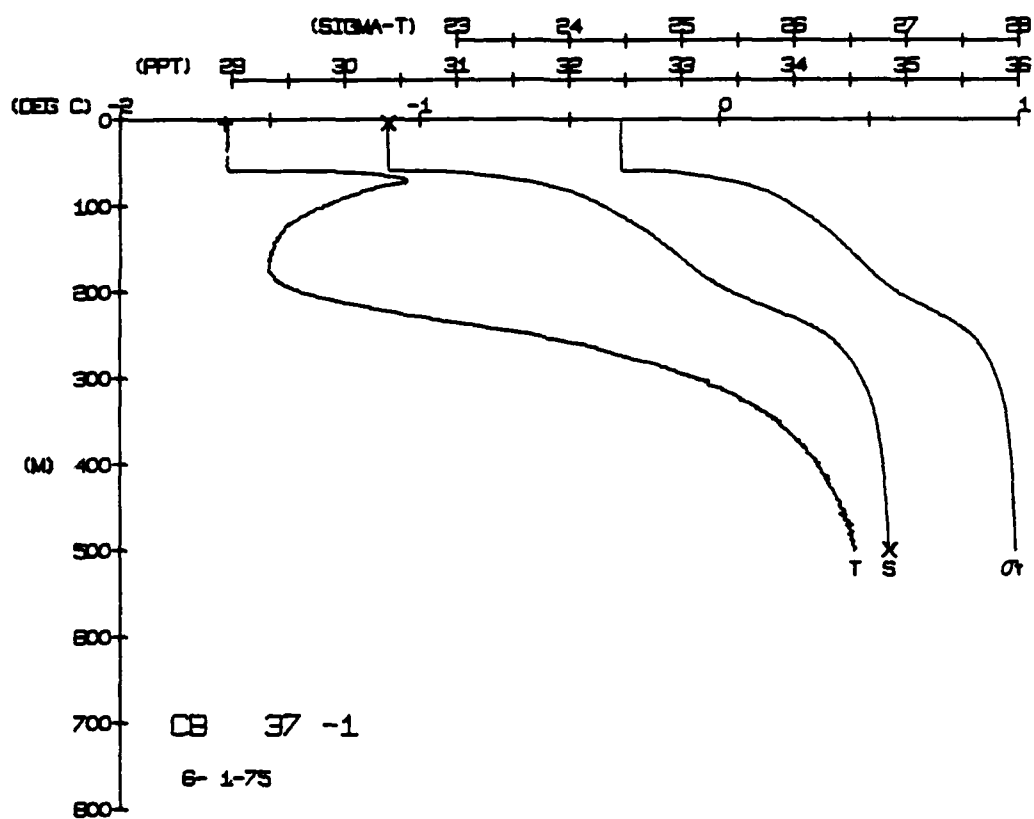
CARINHUU STATION 35(1) CTD 31/MAY/1975 2006 GMT CODE = 1  
LAT = 75.6839N LONG = 146.3206W LTER = 1. LGER = 2.  
AIR TEMP = -8.0 HAROM = 1036.0 WIND = 71.0 SPEED = 42.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0.2	-1.63	-1.63	30.38	24.45	348.7	0.000	1435.1
4.0	-1.63	-1.63	30.38	24.45	348.5	0.018	1435.2
5.0	-1.63	-1.63	30.38	24.45	348.5	0.018	1435.3
10.0	-1.63	-1.63	30.38	24.45	348.3	0.053	1435.4
15.0	-1.63	-1.63	30.38	24.45	348.2	0.053	1435.5
20.0	-1.63	-1.63	30.38	24.45	348.2	0.070	1435.6
25.0	-1.63	-1.63	30.38	24.45	348.1	0.088	1435.7
30.0	-1.63	-1.63	30.38	24.45	347.9	0.105	1435.8
35.0	-1.63	-1.63	30.38	24.45	347.7	0.123	1435.9
40.0	-1.63	-1.63	30.38	24.45	347.7	0.140	1436.0
45.0	-1.63	-1.63	30.38	24.45	347.5	0.158	1436.1
50.0	-1.63	-1.63	30.38	24.45	347.5	0.175	1436.2
55.0	-1.63	-1.63	30.38	24.45	347.3	0.193	1436.3
60.0	-1.63	-1.63	30.38	24.45	347.3	0.209	1436.4
65.0	-1.63	-1.63	30.38	24.45	347.3	0.224	1436.5
70.0	-1.63	-1.63	30.38	24.45	347.3	0.236	1436.6
80.0	-1.63	-1.63	30.38	24.45	347.3	0.251	1436.7
90.0	-1.63	-1.63	30.38	24.45	347.3	0.266	1436.8
100.0	-1.63	-1.63	30.38	24.45	347.3	0.281	1436.9
110.0	-1.63	-1.63	30.38	24.45	347.3	0.296	1437.0
120.0	-1.63	-1.63	30.38	24.45	347.3	0.311	1437.1
130.0	-1.63	-1.63	30.38	24.45	347.3	0.326	1437.2
140.0	-1.63	-1.63	30.38	24.45	347.3	0.341	1437.3
150.0	-1.63	-1.63	30.38	24.45	347.3	0.356	1437.4
160.0	-1.63	-1.63	30.38	24.45	347.3	0.371	1437.5
170.0	-1.63	-1.63	30.38	24.45	347.3	0.386	1437.6
180.0	-1.63	-1.63	30.38	24.45	347.3	0.401	1437.7
190.0	-1.63	-1.63	30.38	24.45	347.3	0.416	1437.8
200.0	-1.63	-1.63	30.38	24.45	347.3	0.431	1437.9
210.0	-1.63	-1.63	30.38	24.45	347.3	0.446	1438.0
220.0	-1.63	-1.63	30.38	24.45	347.3	0.461	1438.1
230.0	-1.63	-1.63	30.38	24.45	347.3	0.476	1438.2
240.0	-1.63	-1.63	30.38	24.45	347.3	0.491	1438.3
250.0	-1.63	-1.63	30.38				

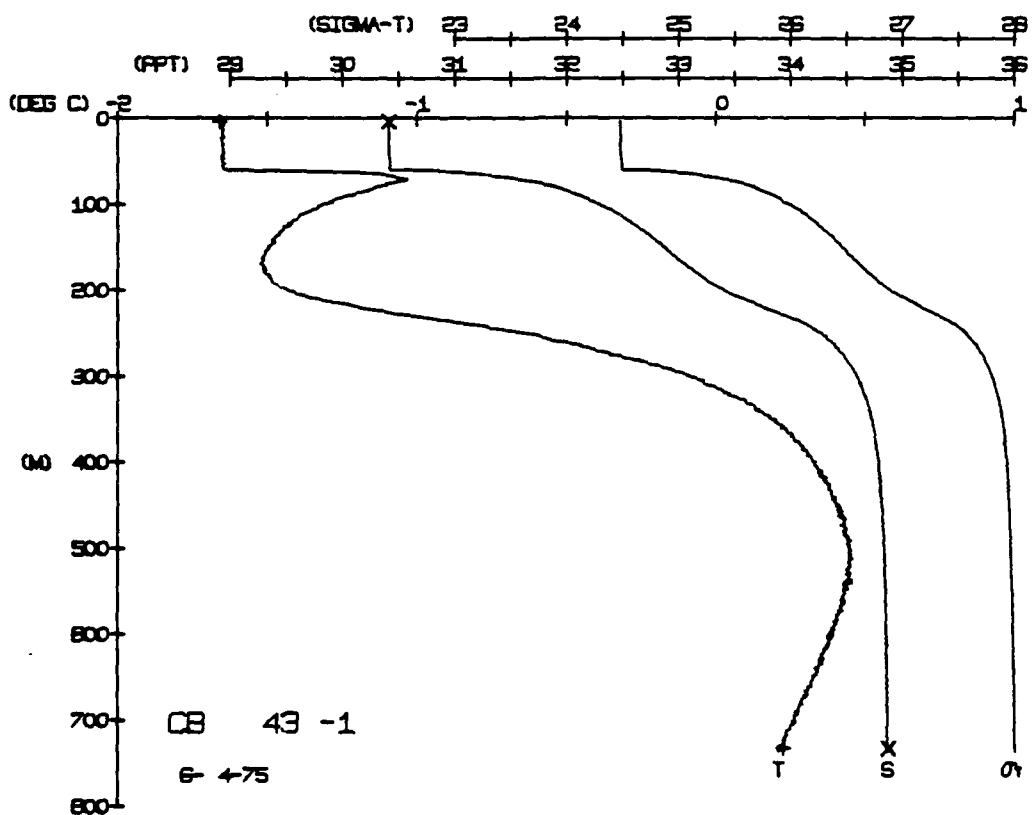
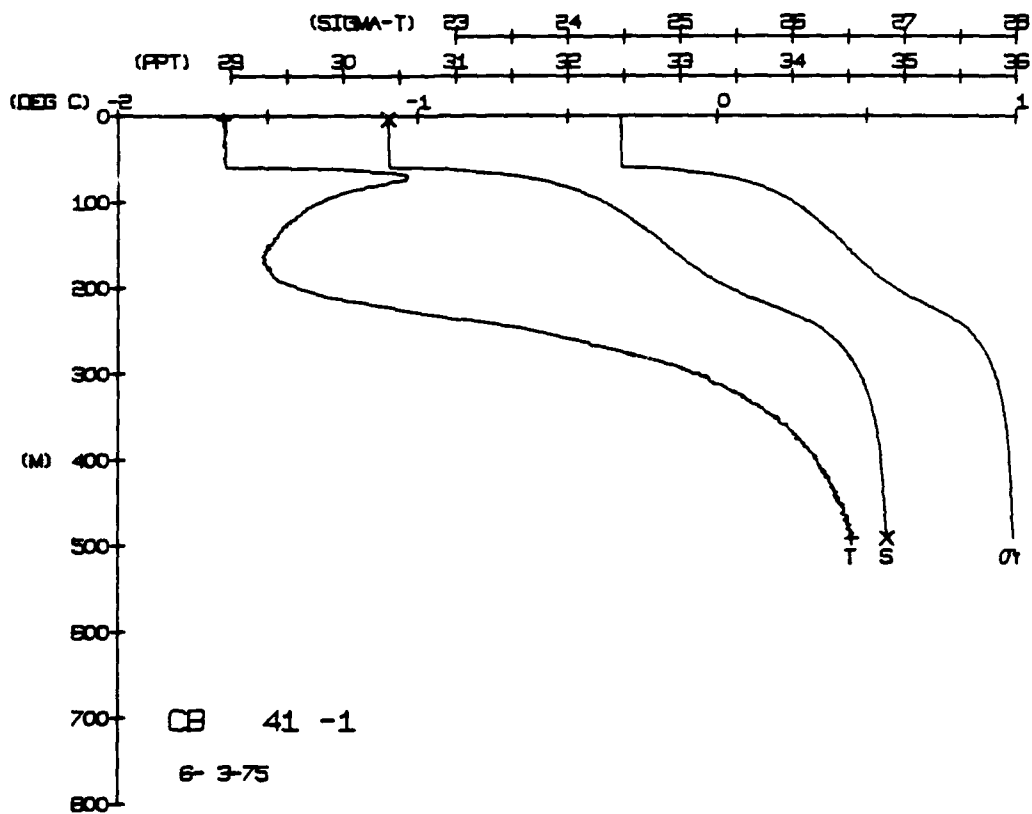


CARIBOU STATION 39(1) CTD 2/JUN/1975 1015 GMT C'CODE = 1  
LAT = 75.6912N LNC = 146.6999W 1.1.1.1 LGPR = 3  
AIR TEMP = -4.5 HARUM = 1024.5 WIND = 70.1 SPEED = 34.0

DEPTH	TEMP	PREP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	1.65	1.5	30.39	24.46	347.8	0.000	1435.1
5	1.65	1.5	30.39	24.46	347.8	0.015	1435.1
10	1.65	1.5	30.39	24.46	347.6	0.035	1435.2
15	1.65	1.5	30.39	24.46	347.6	0.070	1435.3
20	1.65	1.5	30.39	24.46	347.6	0.088	1435.5
25	1.65	1.5	30.39	24.46	347.2	0.105	1435.5
30	1.65	1.5	30.39	24.46	347.2	0.120	1435.7
35	1.65	1.5	30.40	24.47	347.0	0.158	1435.9
40	1.65	1.5	30.40	24.47	346.8	0.192	1436.0
45	1.65	1.5	30.40	24.47	346.8	0.210	1436.3
50	1.63	1.4	30.47	24.52	341.7	0.226	1439.7
55	1.63	1.4	31.15	25.37	286.7	0.239	1440.9
60	1.64	1.4	31.89	25.67	262.6	0.264	1440.9
65	1.64	1.4	32.13	25.86	232.5	0.308	1441.2
70	1.64	1.4	32.30	26.00	209.8	0.327	1441.4
75	1.64	1.4	32.57	26.22	179.0	0.364	1441.5
80	1.64	1.4	32.76	26.38	172.6	0.384	1441.5
85	1.64	1.4	32.89	26.47	164.9	0.394	1441.5
90	1.64	1.4	32.98	26.55	155.2	0.412	1442.0
95	1.64	1.4	33.08	26.63	148.2	0.424	1442.7
100	1.64	1.4	33.19	26.67	132.6	0.441	1443.2
105	1.64	1.4	33.24	26.81	123.3	0.455	1443.8
110	1.64	1.4	33.33	26.93	111.1	0.466	1444.5
115	1.64	1.4	33.43	27.02	98.5	0.475	1445.0
120	1.64	1.4	33.61	27.22	85.1	0.483	1445.8
125	1.69	1.0	33.00	27.37	71.9	0.493	1447.1
130	1.79	0.0	34.16	27.49	59.6	0.500	1448.1







CARIBBEAN STATION 45(1) CTD 5/JUN/1975 1807 GMT CODE = 3  
 LAT = 75.7166N LONG = 147.4811W LTER = 2, LGPR = 3  
 AIR TEMP = -5.1 BAROM = 1012.9 WIND = 47.6 SPEED = 51.3

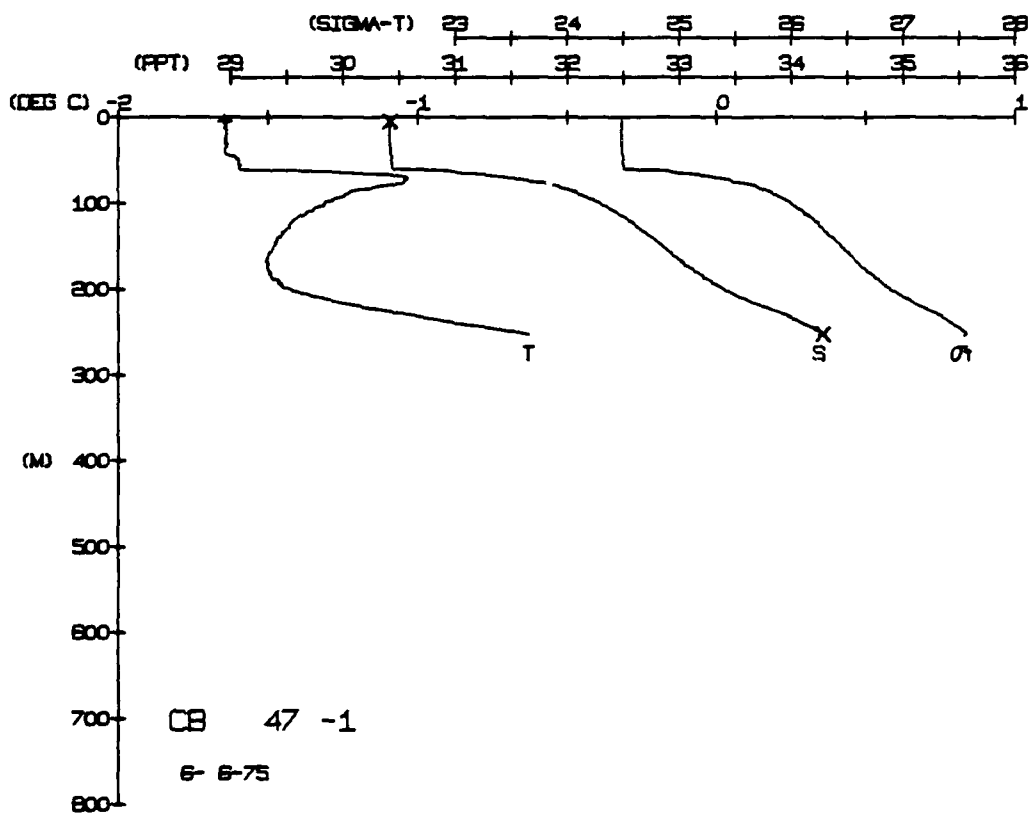
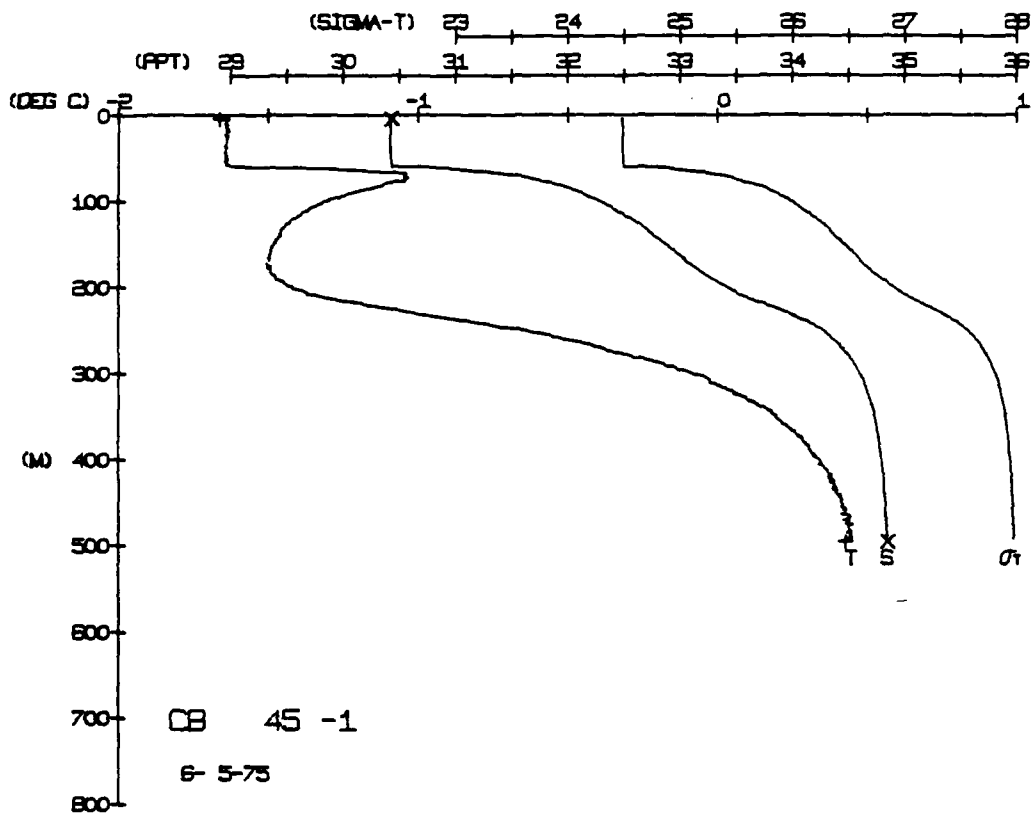
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	UNHT	SOUND
0.0	-1.63	-1.63	30.41	24.48	346.2	0.000	1435.2
4.0	-1.64	-1.64	30.42	24.48	345.9	0.017	1435.2
10.0	-1.64	-1.64	30.41	24.48	345.9	0.035	1435.3
15.0	-1.64	-1.64	30.41	24.48	345.9	0.052	1435.5
20.0	-1.64	-1.64	30.42	24.48	345.6	0.070	1435.6
25.0	-1.64	-1.64	30.42	24.48	345.3	0.087	1435.6
30.0	-1.64	-1.64	30.42	24.48	345.3	0.104	1435.7
35.0	-1.64	-1.64	30.42	24.48	345.2	0.122	1435.8
40.0	-1.64	-1.64	30.42	24.49	344.9	0.139	1436.0
45.0	-1.64	-1.64	30.42	24.49	344.9	0.157	1436.0
50.0	-1.64	-1.64	30.42	24.49	344.9	0.174	1436.0
55.0	-1.62	-1.62	30.42	24.51	342.4	0.191	1436.3
60.0	-1.62	-1.62	30.45	24.54	342.4	0.209	1436.3
65.0	-1.18	-1.18	31.12	25.04	291.9	0.225	1439.4
70.0	-1.04	-1.04	31.48	25.33	269.8	0.239	1440.6
75.0	-1.11	-1.11	32.10	25.84	233.3	0.264	1441.0
80.0	-1.22	-1.22	32.28	25.99	202.1	0.287	1441.0
85.0	-1.31	-1.31	32.55	26.21	191.2	0.308	1441.0
90.0	-1.42	-1.42	32.67	26.38	180.8	0.324	1441.4
95.0	-1.45	-1.45	32.76	26.46	171.8	0.341	1441.8
100.0	-1.48	-1.48	32.87	26.54	164.7	0.357	1441.8
105.0	-1.49	-1.49	32.97	26.62	156.9	0.371	1442.1
110.0	-1.50	-1.50	33.06	26.70	148.9	0.383	1442.3
115.0	-1.49	-1.49	33.16	26.79	141.1	0.397	1442.6
120.0	-1.47	-1.47	33.28	26.90	134.1	0.413	1443.1
125.0	-1.43	-1.43	33.41	27.03	125.0	0.424	1443.7
130.0	-1.35	-1.35	33.57	27.18	114.9	0.441	1444.4
135.0	-1.19	-1.19	33.76	27.33	103.0	0.466	1445.6
140.0	-1.02	-1.02	34.14	27.47	98.4	0.477	1446.8
145.0	-0.84	-0.84	34.27	27.57	74.5	0.492	1448.1
150.0	-0.66	-0.66	34.36	27.64	61.4	0.506	1449.3
155.0	-0.53	-0.53	34.44	27.69	52.3	0.513	1450.2
160.0	-0.40	-0.40	34.50	27.74	40.3	0.517	1451.8
165.0	-0.30	-0.30	34.55	27.78	36.1	0.521	1451.5
170.0	-0.19	-0.19	34.60	27.81	32.8	0.528	1452.3
175.0	-0.04	-0.04	34.67	27.86	29.6	0.531	1453.7
180.0	0.03	0.03	34.69	27.87	25.4	0.533	1454.7
185.0	0.04	0.04	34.73	27.89	22.4	0.538	1455.1
190.0	0.14	0.14	34.73	27.90	21.2	0.540	1455.5
195.0	0.25	0.25	34.76	27.92	19.4	0.544	1456.2
200.0	0.31	0.31	34.79	27.94	18.2	0.548	1456.8
205.0	0.36	0.36	34.81	27.95	16.9	0.552	1457.3
210.0	0.39	0.39	34.82	27.96	16.1	0.555	1457.8
215.0	0.42	0.42	34.83	27.97	15.5	0.558	1458.3
220.0	0.43	0.43	34.84	27.97	15.0	0.561	1458.7
225.0	0.44	0.44	34.85	27.98	14.3	0.564	1459.1

HOT NUM = 1  
 HOT NUM = 2  
 DEPTH 3.7  
 SALIN 30.42  
 TEMP -1.66  
 SPEED 494.9

CARIBBEAN STATION 47(1) CTD 6/JUN/1975 1800 GMT CODE = 1  
 LAT = 75.6951N LONG = 147.6255W LTER = 4, LGPR = 9  
 AIR TEMP = -1.0 BAROM = 1014.9 WIND = 35.4 SPEED = 27.1

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	UNHT	SOUND
0.0	-1.64	-1.64	30.42	24.48	345.8	0.000	1435.1
4.0	-1.64	-1.64	30.42	24.48	345.8	0.015	1435.2
10.0	-1.64	-1.64	30.41	24.48	345.9	0.035	1435.3
15.0	-1.64	-1.64	30.42	24.48	345.6	0.052	1435.4
20.0	-1.64	-1.64	30.42	24.48	345.5	0.070	1435.5
25.0	-1.64	-1.64	30.42	24.49	345.2	0.087	1435.6
30.0	-1.64	-1.64	30.42	24.49	345.0	0.104	1435.7
35.0	-1.65	-1.65	30.43	24.49	344.4	0.122	1435.8
40.0	-1.62	-1.62	30.43	24.50	343.9	0.139	1436.0
45.0	-1.59	-1.59	30.44	24.50	343.4	0.157	1436.2
50.0	-1.59	-1.59	30.44	24.51	343.0	0.174	1436.3
55.0	-1.21	-1.21	31.06	24.99	296.8	0.208	1436.3
60.0	-1.04	-1.04	31.43	25.29	268.2	0.225	1440.6
65.0	-1.11	-1.11	31.89	25.67	232.8	0.239	1441.0
70.0	-1.25	-1.25	32.12	25.85	215.2	0.264	1441.0
75.0	-1.31	-1.31	32.28	25.99	202.0	0.287	1441.0
80.0	-1.42	-1.42	32.43	26.10	190.8	0.308	1441.4
85.0	-1.44	-1.44	32.55	26.29	183.5	0.324	1441.8
90.0	-1.46	-1.46	32.75	26.37	175.4	0.341	1441.8
95.0	-1.48	-1.48	32.85	26.45	165.1	0.357	1441.8
100.0	-1.51	-1.51	32.95	26.53	150.2	0.371	1442.0
105.0	-1.51	-1.51	33.05	26.60	142.9	0.383	1442.3
110.0	-1.47	-1.47	33.15	26.69	134.6	0.397	1442.6
115.0	-1.43	-1.43	33.27	26.79	125.4	0.413	1443.1
120.0	-1.33	-1.33	33.40	26.89	115.4	0.424	1443.7
125.0	-1.20	-1.20	33.55	27.01	104.2	0.441	1444.4
130.0	-1.04	-1.04	33.74	27.16	90.5	0.466	1445.6
135.0	-0.88	-0.88	33.94	27.32	75.3	0.477	1446.8
140.0	-0.67	-0.67	34.10	27.44	64.3	0.492	1448.1
145.0	-0.63	-0.63	34.25	27.55	53.5	0.506	1449.3

HOT NUM = 1  
 HOT NUM = 2  
 DEPTH 4.4  
 SALIN 30.42  
 TEMP -1.64  
 SPEED 252.4





CARIBBEAN STATION 49(1) CTD 17/JUN/1975 1811 GMT CODE = 1  
LAT = 75.6759N LONG = 147.7514W LTER = 2. LGER = 3  
AIR TEMP = -1.0 BAROM = 1020.3 WIND = 159.4 SPEED = 27.1

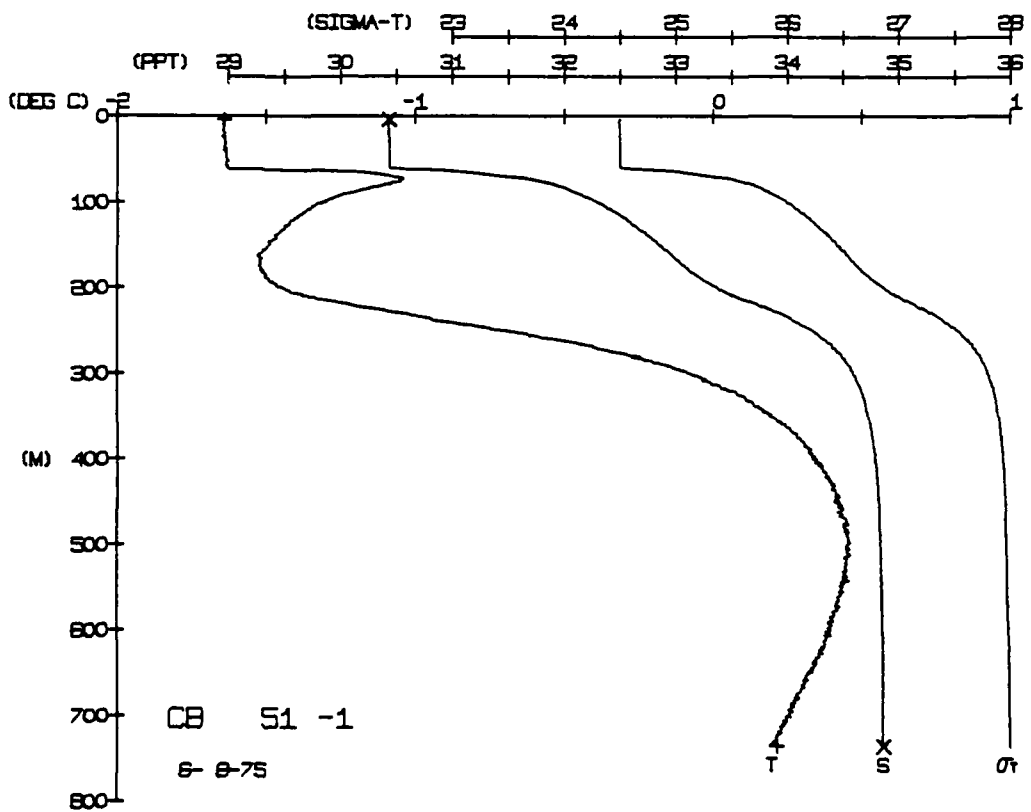
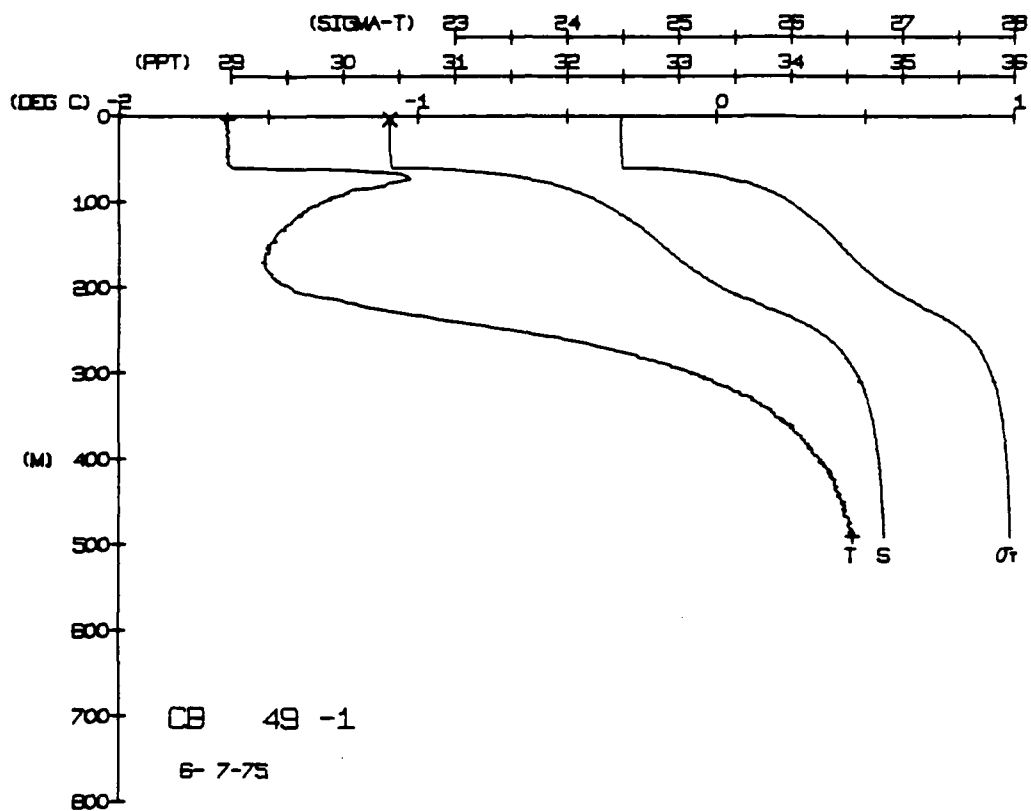
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHNT	SOUND
0.0	-1.64	-1.64	30.43	24.49	345.0	0.000	1435.1
4.5	-1.64	-1.64	30.43	24.49	345.0	0.016	1435.2
5.0	-1.64	-1.64	30.42	24.49	345.5	0.017	1435.2
10.0	-1.64	-1.64	30.42	24.49	345.3	0.035	1435.3
15.0	-1.64	-1.64	30.42	24.49	345.4	0.052	1435.4
20.0	-1.63	-1.63	30.42	24.49	345.2	0.070	1435.5
25.0	-1.63	-1.63	30.42	24.49	345.1	0.087	1435.6
30.0	-1.63	-1.63	30.42	24.49	345.1	0.104	1435.7
35.0	-1.63	-1.63	30.43	24.49	344.9	0.122	1435.8
40.0	-1.64	-1.64	30.43	24.49	344.7	0.139	1435.9
45.0	-1.63	-1.63	30.44	24.50	343.7	0.156	1436.0
50.0	-1.63	-1.63	30.44	24.50	343.3	0.174	1436.1
55.0	-1.63	-1.63	30.44	24.50	343.1	0.191	1436.2
60.0	-1.63	-1.63	30.44	24.50	343.1	0.208	1436.3
65.0	-1.63	-1.63	30.44	24.50	343.1	0.224	1436.4
70.0	-1.64	-1.64	30.44	24.50	343.1	0.238	1436.5
75.0	-1.64	-1.64	30.44	24.50	343.1	0.254	1436.6
80.0	-1.64	-1.64	30.44	24.50	343.1	0.268	1436.7
85.0	-1.64	-1.64	30.44	24.50	343.1	0.286	1436.8
90.0	-1.64	-1.64	30.44	24.50	343.1	0.307	1436.9
95.0	-1.64	-1.64	30.44	24.50	343.1	0.327	1437.0
100.0	-1.64	-1.64	30.44	24.50	343.1	0.346	1437.1
105.0	-1.64	-1.64	30.44	24.50	343.1	0.364	1437.2
110.0	-1.64	-1.64	30.44	24.50	343.1	0.381	1437.3
115.0	-1.64	-1.64	30.44	24.50	343.1	0.397	1437.4
120.0	-1.64	-1.64	30.44	24.50	343.1	0.413	1437.5
125.0	-1.64	-1.64	30.44	24.50	343.1	0.428	1437.6
130.0	-1.64	-1.64	30.44	24.50	343.1	0.442	1437.7
135.0	-1.64	-1.64	30.44	24.50	343.1	0.455	1437.8
140.0	-1.64	-1.64	30.44	24.50	343.1	0.467	1437.9
145.0	-1.64	-1.64	30.44	24.50	343.1	0.478	1438.0
150.0	-1.64	-1.64	30.44	24.50	343.1	0.487	1438.1
155.0	-1.64	-1.64	30.44	24.50	343.1	0.497	1438.2
160.0	-1.64	-1.64	30.44	24.50	343.1	0.504	1438.3
165.0	-1.64	-1.64	30.44	24.50	343.1	0.510	1438.4
170.0	-1.64	-1.64	30.44	24.50	343.1	0.515	1438.5
175.0	-1.64	-1.64	30.44	24.50	343.1	0.520	1438.6
180.0	-1.64	-1.64	30.44	24.50	343.1	0.523	1438.7
185.0	-1.64	-1.64	30.44	24.50	343.1	0.527	1438.8
190.0	-1.64	-1.64	30.44	24.50	343.1	0.530	1438.9
195.0	-1.64	-1.64	30.44	24.50	343.1	0.533	1439.0
200.0	-1.64	-1.64	30.44	24.50	343.1	0.536	1439.1
205.0	-1.64	-1.64	30.44	24.50	343.1	0.538	1439.2
210.0	-1.64	-1.64	30.44	24.50	343.1	0.540	1439.3
215.0	-1.64	-1.64	30.44	24.50	343.1	0.543	1439.4
220.0	-1.64	-1.64	30.44	24.50	343.1	0.547	1439.5
225.0	-1.64	-1.64	30.44	24.50	343.1	0.550	1439.6
230.0	-1.64	-1.64	30.44	24.50	343.1	0.554	1439.7
235.0	-1.64	-1.64	30.44	24.50	343.1	0.557	1439.8
240.0	-1.64	-1.64	30.44	24.50	343.1	0.561	1439.9
245.0	-1.64	-1.64	30.44	24.50	343.1	0.564	1440.0
250.0	-1.64	-1.64	30.44	24.50	343.1	0.567	1440.1

DEPTH 3.7  
TEMP -1.63  
SALIN 30.42  
ROT NUM = 1  
ROT NUM = 2

CARIBBEAN STATION 51(1) CTD 8/JUN/1975 1800 GMT CODE = 3  
LAT = 75.6459N LONG = 147.8481W LTER = 0. LGER = 0  
AIR TEMP = -0.9 BAROM = 1021.0 WIND = 175.0 SPEED = 26.2

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHNT	SOUND
0.0	-1.64	-1.64	30.43	24.49	344.8	0.000	1435.2
4.2	-1.64	-1.64	30.43	24.49	344.8	0.015	1435.2
5.0	-1.64	-1.64	30.43	24.49	345.0	0.017	1435.2
10.0	-1.64	-1.64	30.43	24.49	344.9	0.035	1435.3
15.0	-1.64	-1.64	30.43	24.49	344.6	0.052	1435.4
20.0	-1.64	-1.64	30.43	24.49	344.6	0.069	1435.5
25.0	-1.64	-1.64	30.43	24.50	344.3	0.087	1435.6
30.0	-1.63	-1.63	30.43	24.50	344.1	0.104	1435.7
35.0	-1.64	-1.64	30.44	24.50	344.0	0.121	1435.8
40.0	-1.64	-1.64	30.44	24.50	343.9	0.139	1435.9
45.0	-1.63	-1.63	30.44	24.50	343.8	0.156	1436.0
50.0	-1.63	-1.63	30.44	24.50	343.8	0.173	1436.1
55.0	-1.63	-1.63	30.44	24.50	343.5	0.191	1436.2
60.0	-1.63	-1.63	30.44	24.50	343.5	0.208	1436.3
65.0	-1.63	-1.63	30.44	24.50	343.5	0.224	1436.4
70.0	-1.63	-1.63	30.44	24.50	343.5	0.238	1436.5
75.0	-1.63	-1.63	30.44	24.50	343.5	0.254	1436.6
80.0	-1.63	-1.63	30.44	24.50	343.5	0.268	1436.7
85.0	-1.63	-1.63	30.44	24.50	343.5	0.286	1436.8
90.0	-1.63	-1.63	30.44	24.50	343.5	0.307	1436.9
95.0	-1.63	-1.63	30.44	24.50	343.5	0.327	1437.0
100.0	-1.63	-1.63	30.44	24.50	343.5	0.346	1437.1
105.0	-1.63	-1.63	30.44	24.50	343.5	0.364	1437.2
110.0	-1.63	-1.63	30.44	24.50	343.5	0.381	1437.3
115.0	-1.63	-1.63	30.44	24.50	343.5	0.397	1437.4
120.0	-1.63	-1.63	30.44	24.50	343.5	0.413	1437.5
125.0	-1.63	-1.63	30.44	24.50	343.5	0.428	1437.6
130.0	-1.63	-1.63	30.44	24.50	343.5	0.442	1437.7
135.0	-1.63	-1.63	30.44	24.50	343.5	0.455	1437.8
140.0	-1.63	-1.63	30.44	24.50	343.5	0.467	1437.9
145.0	-1.63	-1.63	30.44	24.50	343.5	0.478	1438.0
150.0	-1.63	-1.63	30.44	24.50	343.5	0.487	1438.1
155.0	-1.63	-1.63	30.44	24.50	343.5	0.497	1438.2
160.0	-1.63	-1.63	30.44	24.50	343.5	0.504	1438.3
165.0	-1.63	-1.63	30.44	24.50	343.5	0.510	1438.4
170.0	-1.63	-1.63	30.44	24.50	343.5	0.515	1438.5
175.0	-1.63	-1.63	30.44	24.50	343.5	0.520	1438.6
180.0	-1.63	-1.63	30.44	24.50	343.5	0.523	1438.7
185.0	-1.63	-1.63	30.44	24.50	343.5	0.527	1438.8
190.0	-1.63	-1.63	30.44	24.50	343.5	0.530	1438.9
195.0	-1.63	-1.63	30.44	24.50	343.5	0.533	1439.0
200.0	-1.63	-1.63	30.44	24.50	343.5	0.536	1439.1
205.0	-1.63	-1.63	30.44	24.50	343.5	0.538	1439.2
210.0	-1.63	-1.63	30.44	24.50	343.5	0.540	1439.3
215.0	-1.63	-1.63	30.44	24.50	343.5	0.543	1439.4
220.0	-1.63	-1.63	30.44	24.50	343.5	0.547	1439.5
225.0	-1.63	-1.63	30.44	24.50	343.5	0.550	1439.6
230.0	-1.63	-1.63	30.44	24.50	343.5	0.554	1439.7
235.0	-1.63	-1.63	30.44	24.50	343.5	0.557	1439.8
240.0	-1.63	-1.63	30.44	24.50	343.5	0.561	1439.9
245.0	-1.63	-1.63	30.44	24.50	343.5	0.564	1440.0
250.0	-1.63	-1.63	30.44	24.50	343.5	0.567	1440.1

DEPTH 3.9  
TEMP -1.64  
SALIN 30.43  
ROT NUM = 1  
ROT NUM = 2



CARIBOU STATION 53(1) CTD 9/JUN/1975 1820 GMT CODE = 1  
LAT = 75.6080N LONG = 147.8307W LTPR = 85. LGER = 149.  
AIR TEMP = -0.9 HARUM = 1021.7 WIND = 325.0 SPEED = 26.2

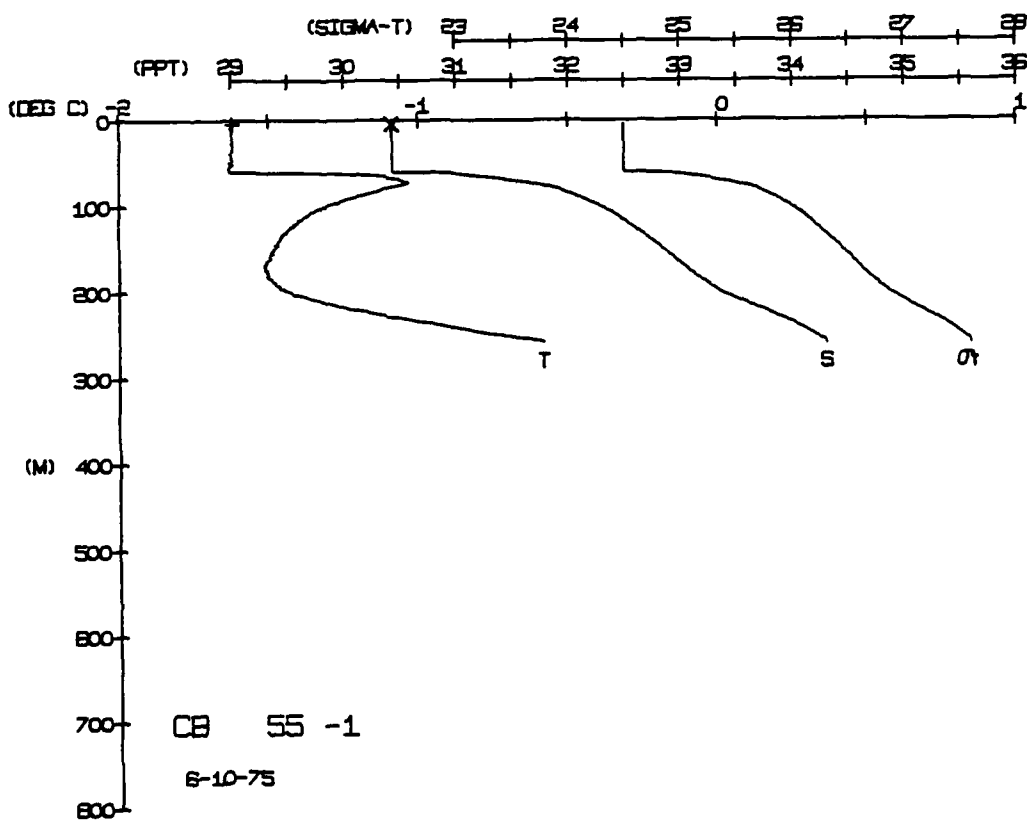
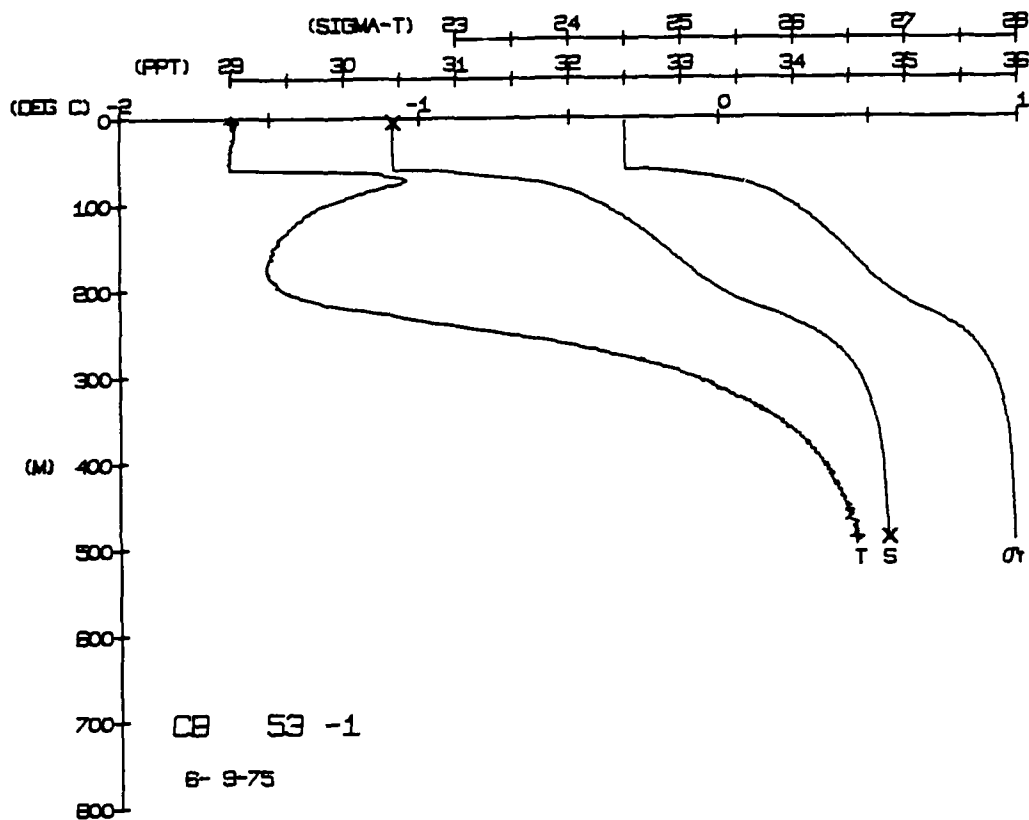
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHHT	SOUND
0.0	-1.62	-1.62	30.43	24.50	344.6	0.000	1435.2
4.0	-1.62	-1.62	30.43	24.50	344.5	0.016	1435.3
10.0	-1.62	-1.62	30.43	24.50	344.6	0.017	1435.4
15.0	-1.62	-1.62	30.43	24.50	344.6	0.035	1435.4
20.0	-1.62	-1.62	30.43	24.50	344.4	0.052	1435.6
25.0	-1.62	-1.62	30.44	24.50	344.4	0.069	1435.7
30.0	-1.62	-1.62	30.44	24.50	343.9	0.087	1435.7
35.0	-1.63	-1.63	30.44	24.50	343.7	0.104	1435.8
40.0	-1.63	-1.63	30.44	24.50	343.6	0.121	1435.9
45.0	-1.63	-1.63	30.44	24.50	343.3	0.139	1436.0
50.0	-1.63	-1.63	30.44	24.50	343.3	0.156	1436.0
55.0	-1.63	-1.63	30.45	24.51	343.3	0.173	1436.1
60.0	-1.63	-1.63	30.45	24.51	342.9	0.191	1436.3
65.0	-1.63	-1.63	31.13	25.05	291.3	0.208	1436.7
70.0	-1.65	-1.65	31.46	25.32	266.1	0.224	1440.5
75.0	-1.65	-1.65	31.89	25.66	233.0	0.238	1441.0
80.0	-1.65	-1.65	32.12	25.85	202.3	0.266	1441.0
85.0	-1.65	-1.65	32.28	25.98	171.5	0.307	1441.2
90.0	-1.65	-1.65	32.42	26.10	141.1	0.326	1441.2
95.0	-1.65	-1.65	32.55	26.29	110.8	0.345	1441.4
100.0	-1.65	-1.65	32.65	26.45	80.6	0.363	1441.4
105.0	-1.65	-1.65	32.75	26.52	50.4	0.380	1441.8
110.0	-1.65	-1.65	32.85	26.60	20.1	0.397	1441.8
115.0	-1.65	-1.65	32.94	26.67	0.0	0.412	1442.0
120.0	-1.65	-1.65	33.12	26.75	0.0	0.427	1442.2
125.0	-1.65	-1.65	33.23	26.86	0.0	0.445	1442.5
130.0	-1.65	-1.65	33.36	26.97	0.0	0.469	1443.1
135.0	-1.65	-1.65	33.49	27.11	0.0	0.479	1443.3
140.0	-1.65	-1.65	33.68	27.29	0.0	0.489	1444.4
145.0	-1.65	-1.65	33.90	27.40	0.0	0.498	1445.2
150.0	-1.65	-1.65	34.21	27.52	0.0	0.511	1446.9
155.0	-1.65	-1.65	34.42	27.68	0.0	0.521	1448.0
160.0	-1.65	-1.65	34.49	27.77	0.0	0.525	1451.8
165.0	-1.65	-1.65	34.55	27.80	0.0	0.529	1452.6
170.0	-1.65	-1.65	34.62	27.83	0.0	0.533	1453.2
175.0	-1.65	-1.65	34.69	27.87	0.0	0.538	1454.2
180.0	-1.65	-1.65	34.69	27.89	0.0	0.540	1454.7
185.0	-1.65	-1.65	34.71	27.89	0.0	0.543	1455.1
190.0	-1.65	-1.65	34.76	27.92	0.0	0.545	1455.5
195.0	-1.65	-1.65	34.79	27.94	0.0	0.549	1456.8
200.0	-1.65	-1.65	34.80	27.95	0.0	0.553	1457.4
205.0	-1.65	-1.65	34.82	27.96	0.0	0.556	1457.9
210.0	-1.65	-1.65	34.83	27.97	0.0	0.560	1458.3
215.0	-1.65	-1.65	34.84	27.97	0.0	0.563	1458.8
220.0	-1.65	-1.65	34.85	27.98	0.0	0.566	1459.2
225.0	-1.65	-1.65	34.85	27.98	0.0	0.569	1459.7
230.0	-1.65	-1.65	34.85	27.98	0.0	0.569	1459.7
235.0	-1.65	-1.65	34.85	27.98	0.0	0.569	1459.7
240.0	-1.65	-1.65	34.85	27.98	0.0	0.569	1459.7
245.0	-1.65	-1.65	34.85	27.98	0.0	0.569	1459.7
250.0	-1.65	-1.65	34.85	27.98	0.0	0.569	1459.7

HUT NUM = 1  
HUT NUM = 2  
DEPTH 4.4  
488.1  
TEMP. -1.63  
0.46  
SALIN 30.44  
34.85

CARIBOU STATION 55(1) CTD 10/JUN/1975 1818 GMT CODE = 1  
LAT = 75.5955N LONG = 147.7981W LTPR = 85. LGER = 149.  
AIR TEMP = -0.9 HARUM = 1017.7 WIND = 325.0 SPEED = 26.2

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHHT	SOUND
0.0	-1.63	-1.63	30.44	24.50	344.4	0.000	1435.2
4.0	-1.63	-1.63	30.44	24.50	344.3	0.017	1435.3
10.0	-1.62	-1.62	30.43	24.50	344.5	0.017	1435.4
15.0	-1.62	-1.62	30.43	24.50	344.5	0.035	1435.4
20.0	-1.62	-1.62	30.43	24.50	344.4	0.052	1435.6
25.0	-1.62	-1.62	30.43	24.50	344.2	0.069	1435.7
30.0	-1.62	-1.62	30.43	24.50	344.2	0.087	1435.7
35.0	-1.63	-1.63	30.44	24.50	343.9	0.104	1435.8
40.0	-1.63	-1.63	30.44	24.50	343.7	0.121	1435.9
45.0	-1.63	-1.63	30.44	24.50	343.6	0.139	1436.0
50.0	-1.63	-1.63	30.44	24.50	343.6	0.156	1436.0
55.0	-1.63	-1.63	30.44	24.50	343.2	0.173	1436.1
60.0	-1.62	-1.62	30.47	24.52	341.2	0.191	1436.3
65.0	-1.12	-1.12	31.17	25.08	288.3	0.208	1439.7
70.0	-1.06	-1.06	31.48	25.33	264.3	0.224	1440.5
75.0	-1.11	-1.11	31.90	25.67	232.1	0.238	1441.0
80.0	-1.22	-1.22	32.19	25.84	201.7	0.266	1441.0
85.0	-1.37	-1.37	32.43	25.99	171.5	0.307	1441.2
90.0	-1.44	-1.44	32.55	26.11	141.1	0.326	1441.2
95.0	-1.46	-1.46	32.65	26.29	110.8	0.345	1441.4
100.0	-1.46	-1.46	32.75	26.45	80.6	0.363	1441.4
105.0	-1.46	-1.46	32.85	26.52	50.4	0.380	1441.8
110.0	-1.46	-1.46	32.94	26.60	20.1	0.397	1441.8
115.0	-1.46	-1.46	33.12	26.67	0.0	0.412	1442.0
120.0	-1.48	-1.48	33.23	26.75	0.0	0.427	1442.2
125.0	-1.48	-1.48	33.36	26.86	0.0	0.445	1442.5
130.0	-1.48	-1.48	33.49	26.97	0.0	0.469	1443.1
135.0	-1.48	-1.48	33.68	27.11	0.0	0.479	1443.3
140.0	-1.48	-1.48	33.90	27.29	0.0	0.489	1444.4
145.0	-1.48	-1.48	34.21	27.40	0.0	0.498	1445.2
150.0	-1.48	-1.48	34.42	27.52	0.0	0.511	1446.9
155.0	-1.48	-1.48	34.49	27.68	0.0	0.521	1448.0
160.0	-1.48	-1.48	34.55	27.77	0.0	0.525	1451.8
165.0	-1.48	-1.48	34.62	27.80	0.0	0.529	1452.6
170.0	-1.48	-1.48	34.69	27.83	0.0	0.533	1453.2
175.0	-1.48	-1.48	34.69	27.87	0.0	0.538	1454.2
180.0	-1.48	-1.48	34.71	27.89	0.0	0.540	1454.7
185.0	-1.48	-1.48	34.76	27.92	0.0	0.543	1455.1
190.0	-1.48	-1.48	34.79	27.94	0.0	0.545	1455.5
195.0	-1.48	-1.48	34.80	27.95	0.0	0.549	1456.8
200.0	-1.48	-1.48	34.82	27.96	0.0	0.553	1457.4
205.0	-1.48	-1.48	34.83	27.97	0.0	0.556	1457.9
210.0	-1.48	-1.48	34.84	27.97	0.0	0.560	1458.3
215.0	-1.48	-1.48	34.85	27.98	0.0	0.563	1458.8
220.0	-1.48	-1.48	34.85	27.98	0.0	0.566	1459.2
225.0	-1.48	-1.48	34.85	27.98	0.0	0.569	1459.7
230.0	-1.48	-1.48	34.85	27.98	0.0	0.569	1459.7
235.0	-1.48	-1.48	34.85	27.98	0.0	0.569	1459.7
240.0	-1.48	-1.48	34.85	27.98	0.0	0.569	1459.7
245.0	-1.48	-1.48	34.85	27.98	0.0	0.569	1459.7
250.0	-1.48	-1.48	34.85	27.98	0.0	0.569	1459.7

HUT NUM = 1  
HUT NUM = 2  
DEPTH 3.9  
3.9  
TEMP. -1.62  
-1.62  
SALIN 30.43  
30.43



CARIBBEAN STATION 59(1) CTD 11/JUN/1975 1800 GMT CODE = 1  
LAT = 75.5940N LNG = 147.7072W ITEM = 1. USER = 2.  
AIR TEMP = -4.0 BAROM = 1017.5 WIND =

DEPTH	TEMP	PIEHP	SALIN	SIG T	SPVUL	DYHHT	SOUND
0	-1.64	-1.64	30.45	24.51	343.4	0.000	1435.2
0	-1.64	-1.64	30.45	24.51	343.4	0.017	1435.2
0	-1.65	-1.65	30.44	24.50	344.2	0.017	1435.2
10	-1.64	-1.64	30.43	24.50	344.4	0.035	1435.4
20	-1.64	-1.64	30.43	24.50	344.4	0.069	1435.6
25	-1.64	-1.64	30.44	24.50	344.2	0.087	1435.5
30	-1.65	-1.65	30.44	24.50	343.9	0.104	1435.7
35	-1.64	-1.64	30.44	24.50	343.7	0.121	1435.9
40	-1.63	-1.63	30.44	24.50	343.7	0.139	1435.9
45	-1.63	-1.63	30.44	24.50	343.7	0.156	1436.0
50	-1.63	-1.63	30.44	24.50	343.7	0.173	1436.1
55	-1.63	-1.63	30.44	24.50	343.7	0.191	1436.1
60	-1.63	-1.63	30.44	24.50	343.7	0.208	1436.2
65	-1.63	-1.63	30.44	24.50	343.7	0.226	1436.2
70	-1.66	-1.66	31.12	25.03	292.8	0.238	1440.5
75	-1.66	-1.66	31.12	25.03	292.8	0.263	1441.1
80	-1.66	-1.66	31.12	25.03	292.8	0.285	1441.0
85	-1.66	-1.66	31.12	25.03	292.8	0.306	1441.0
90	-1.66	-1.66	31.12	25.03	292.8	0.326	1441.0
100	-1.66	-1.66	31.12	25.03	292.8	0.342	1441.0
110	-1.66	-1.66	31.12	25.03	292.8	0.359	1441.0
120	-1.66	-1.66	31.12	25.03	292.8	0.375	1441.0
130	-1.66	-1.66	31.12	25.03	292.8	0.396	1441.0
140	-1.66	-1.66	31.12	25.03	292.8	0.411	1441.0
150	-1.66	-1.66	31.12	25.03	292.8	0.426	1441.0
160	-1.66	-1.66	31.12	25.03	292.8	0.440	1441.0
170	-1.66	-1.66	31.12	25.03	292.8	0.456	1441.0
180	-1.66	-1.66	31.12	25.03	292.8	0.477	1441.0
190	-1.66	-1.66	31.12	25.03	292.8	0.496	1441.0
200	-1.66	-1.66	31.12	25.03	292.8	0.503	1441.0
210	-1.66	-1.66	31.12	25.03	292.8	0.519	1441.0
220	-1.66	-1.66	31.12	25.03	292.8	0.523	1441.0
230	-1.66	-1.66	31.12	25.03	292.8	0.530	1441.0
240	-1.66	-1.66	31.12	25.03	292.8	0.536	1441.0
250	-1.66	-1.66	31.12	25.03	292.8	0.544	1441.0
260	-1.66	-1.66	31.12	25.03	292.8	0.551	1441.0
270	-1.66	-1.66	31.12	25.03	292.8	0.558	1441.0
280	-1.66	-1.66	31.12	25.03	292.8	0.564	1441.0
290	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
300	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
310	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
320	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
330	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
340	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
350	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
360	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
370	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
380	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
390	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
400	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
410	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
420	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
430	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
440	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
450	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
460	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
470	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
480	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
490	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0
493.1	-1.66	-1.66	31.12	25.03	292.8	0.567	1441.0

ROT NUM = 1  
ROT NUM = 2

DEPTH  
4.1  
489.8

TEMP.  
-1.64  
0.47

SALIN  
30.44  
34.85

CARIBBEAN STATION 59(1) CTD 17/JUN/1975 1816 GMT CODE = 1  
LAT = 75.567N LNG = 147.8013W ITEM = 2. USER = 3.  
AIR TEMP = -4.0 BAROM = 1017.9 WIND = 28H.1 SPEED = 27.3

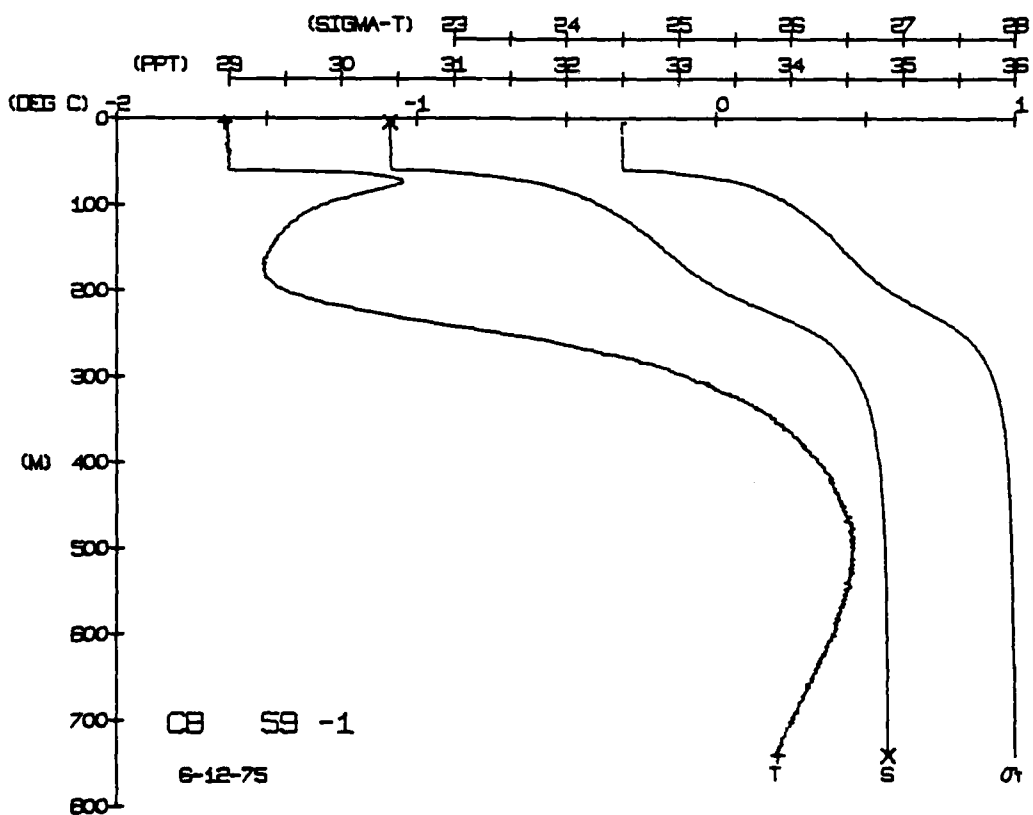
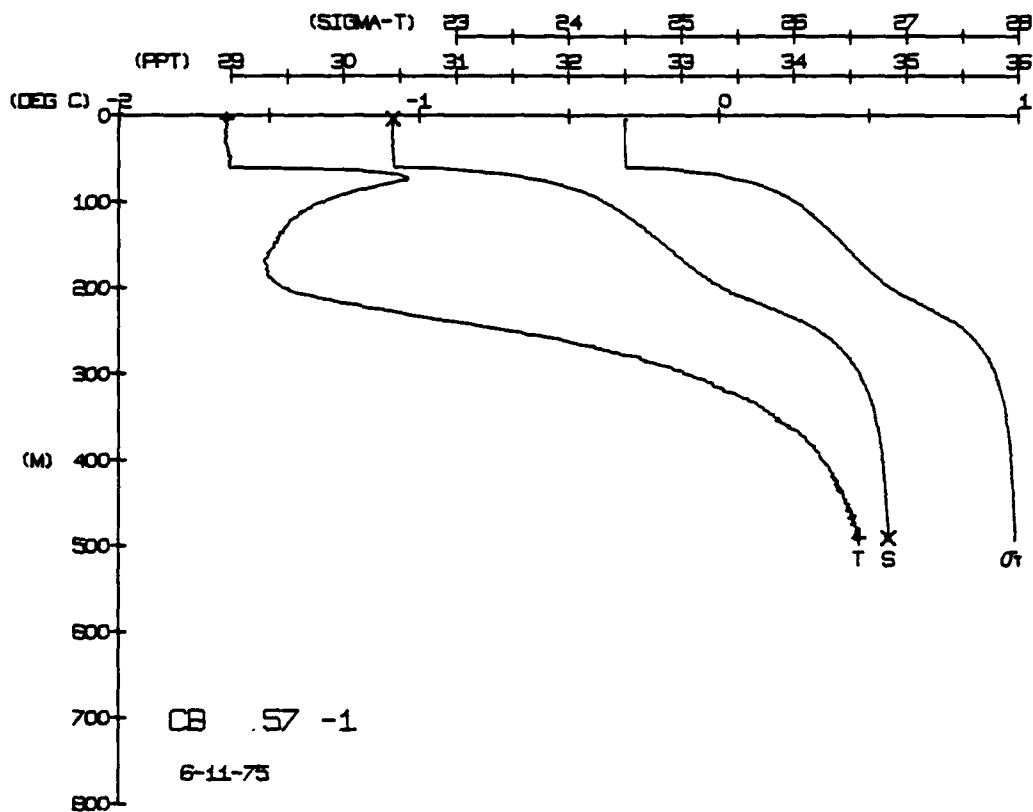
DEPTH	TEMP	PIEHP	SALIN	SIG T	SPVUL	DYHHT	SOUND
0	-1.63	-1.63	30.46	24.52	342.2	0.000	1435.2
0	-1.63	-1.63	30.46	24.52	342.2	0.017	1435.2
0	-1.63	-1.63	30.46	24.52	342.2	0.017	1435.2
10	-1.63	-1.63	30.46	24.52	342.2	0.035	1435.4
20	-1.63	-1.63	30.46	24.52	342.2	0.069	1435.6
25	-1.63	-1.63	30.46	24.52	342.2	0.087	1435.5
30	-1.63	-1.63	30.46	24.52	342.2	0.104	1435.7
35	-1.63	-1.63	30.46	24.52	342.2	0.121	1435.9
40	-1.63	-1.63	30.46	24.52	342.2	0.139	1436.0
45	-1.63	-1.63	30.46	24.52	342.2	0.156	1436.1
50	-1.63	-1.63	30.46	24.52	342.2	0.173	1436.1
55	-1.63	-1.63	30.46	24.52	342.2	0.191	1436.2
60	-1.63	-1.63	30.46	24.52	342.2	0.208	1436.2
65	-1.63	-1.63	30.46	24.52	342.2	0.226	1436.2
70	-1.63	-1.63	30.46	24.52	342.2	0.238	1440.5
75	-1.63	-1.63	30.46	24.52	342.2	0.263	1441.1
80	-1.63	-1.63	30.46	24.52	342.2	0.285	1441.0
85	-1.63	-1.63	30.46	24.52	342.2	0.306	1441.0
90	-1.63	-1.63	30.46	24.52	342.2	0.326	1441.0
100	-1.63	-1.63	30.46	24.52	342.2	0.342	1441.0
110	-1.63	-1.63	30.46	24.52	342.2	0.359	1441.0
120	-1.63	-1.63	30.46	24.52	342.2	0.375	1441.0
130	-1.63	-1.63	30.46	24.52	342.2	0.396	1441.0
140	-1.63	-1.63	30.46	24.52	342.2	0.411	1441.0
150	-1.63	-1.63	30.46	24.52	342.2	0.426	1441.0
160	-1.63	-1.63	30.46	24.52	342.2	0.440	1441.0
170	-1.63	-1.63	30.46	24.52	342.2	0.456	1441.0
180	-1.63	-1.63	30.46	24.52	342.2	0.477	1441.0
190	-1.63	-1.63	30.46	24.52	342.2	0.496	1441.0
200	-1.63	-1.63	30.46	24.52	342.2	0.503	1441.0
210	-1.63	-1.63	30.46	24.52	342.2	0.519	1441.0
220	-1.63	-1.63	30.46	24.52	342.2	0.523	1441.0
230	-1.63	-1.63	30.46	24.52	342.2	0.530	1441.0
240	-1.63	-1.63	30.46	24.52	342.2	0.536	1441.0
250	-1.63	-1.63	30.46	24.52	342.2	0.544	1441.0
260	-1.63	-1.63	30.46	24.52	342.2	0.551	1441.0
270	-1.63	-1.63	30.46	24.52	342.2	0.558	1441.0
280	-1.63	-1.63	30.46	24.52	342.2	0.564	1441.0
290	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
300	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
310	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
320	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
330	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
340	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
350	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
360	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
370	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
380	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
390	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
400	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
410	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
420	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
430	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
440	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
450	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
460	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
470	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
480	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
490	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0
493.1	-1.63	-1.63	30.46	24.52	342.2	0.567	1441.0

ROT NUM = 1  
ROT NUM = 2

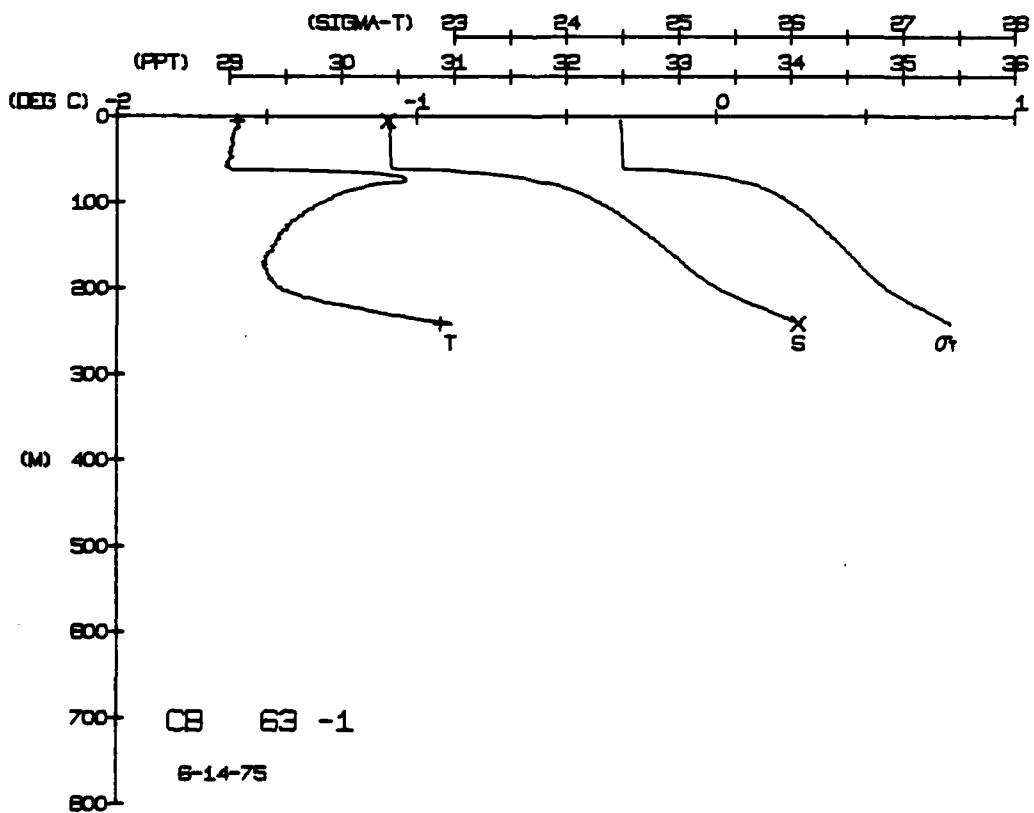
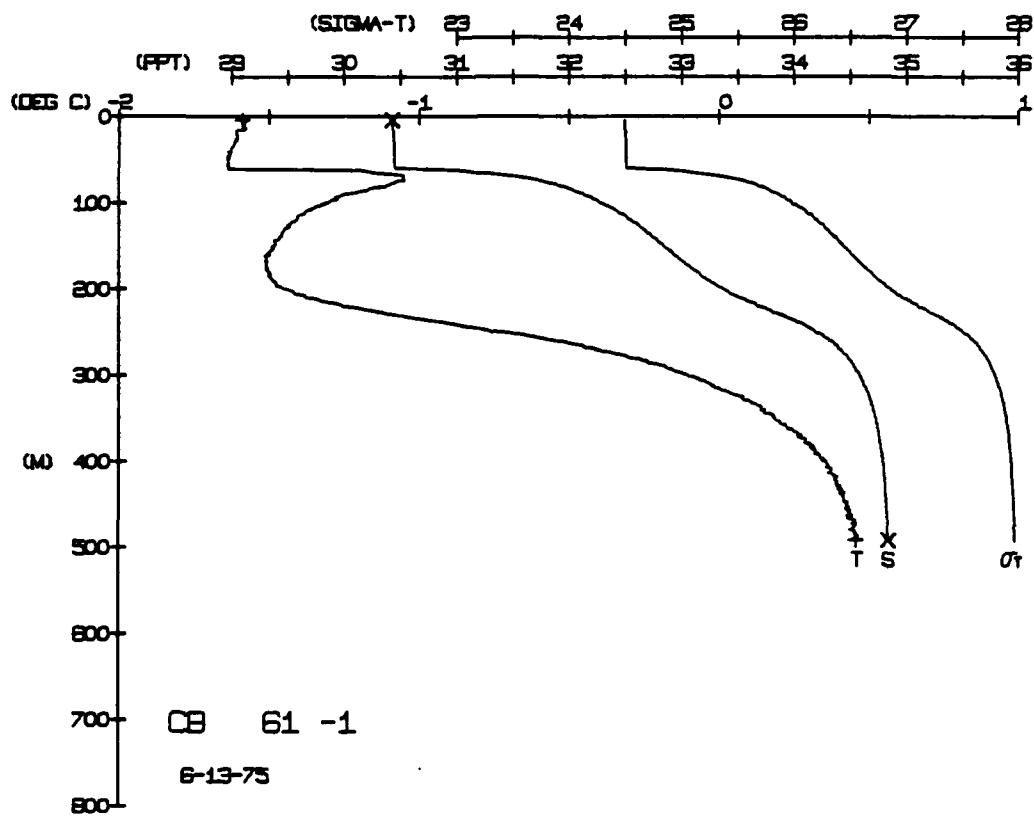
DEPTH  
4.1  
740.0

TEMP.  
-1.64  
0.21

SALIN  
30.43  
34.88









CARIBOU STATION 65(1) CTD 15/JUN/1975 1817 GMT CODE = 2  
LAT = 75.6395N LNG = 148.1214W LTER = 0.0 LGCR = 0.0  
AIR TEMP = -2.3 BAROM = 1019.4 WIND = 181.1 SPEED = 20.0

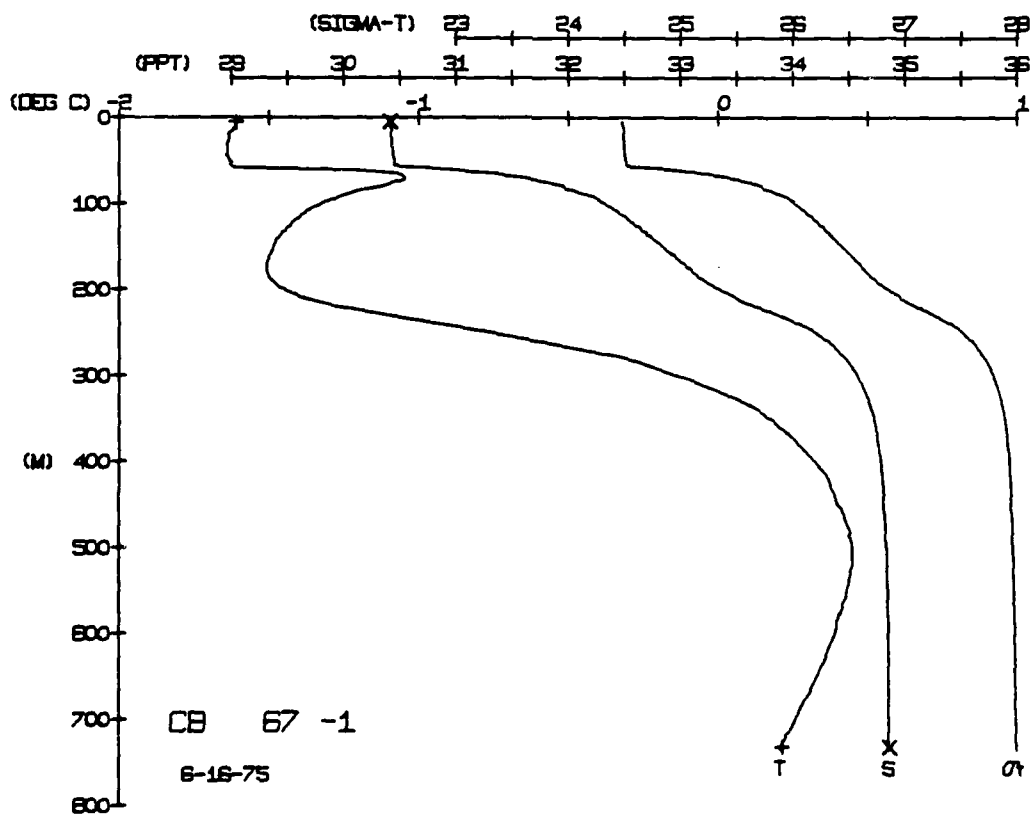
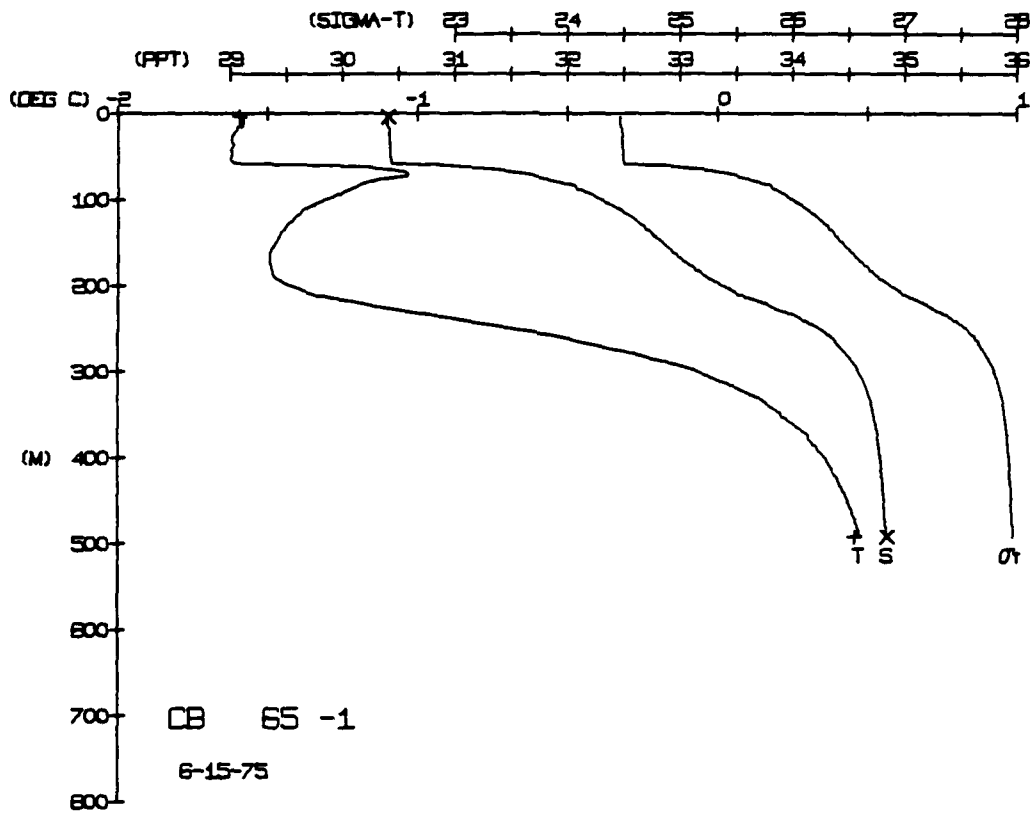
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0.0	-1.58	-1.58	30.39	24.46	347.8	0.000	1435.4
4.9	-1.58	-1.58	30.39	24.46	347.7	0.017	1435.4
5.0	-1.58	-1.58	30.39	24.46	347.5	0.018	1435.5
10.0	-1.59	-1.59	30.40	24.47	347.2	0.052	1435.6
15.0	-1.61	-1.61	30.41	24.48	345.9	0.070	1435.7
25.0	-1.62	-1.62	30.42	24.48	345.6	0.087	1435.7
30.0	-1.62	-1.62	30.42	24.49	345.2	0.105	1435.8
35.0	-1.62	-1.62	30.43	24.49	344.7	0.157	1435.9
45.0	-1.62	-1.62	30.43	24.49	344.6	0.192	1436.0
55.0	-1.62	-1.62	30.43	24.49	344.3	0.208	1436.1
60.0	-1.64	-1.64	30.43	24.49	343.7	0.224	1436.1
65.0	-1.13	-1.13	31.29	25.18	327.9	0.237	1439.8
70.0	-1.16	-1.16	31.59	25.42	296.0	0.262	1440.8
80.0	-1.24	-1.24	32.12	25.86	233.6	0.284	1440.9
90.0	-1.31	-1.31	32.29	25.99	201.5	0.305	1441.0
100.0	-1.37	-1.37	32.44	26.12	189.8	0.325	1441.1
110.0	-1.40	-1.40	32.56	26.30	172.4	0.343	1441.2
120.0	-1.46	-1.46	32.75	26.44	168.3	0.361	1441.4
130.0	-1.47	-1.47	32.84	26.57	158.7	0.378	1441.6
140.0	-1.49	-1.49	33.01	26.59	154.5	0.410	1441.8
150.0	-1.49	-1.49	33.02	26.59	151.4	0.425	1442.3
160.0	-1.48	-1.48	33.12	26.67	136.8	0.439	1442.6
170.0	-1.44	-1.44	33.37	26.76	127.9	0.465	1443.0
180.0	-1.36	-1.36	33.51	26.87	118.0	0.476	1443.5
200.0	-1.21	-1.21	33.73	27.15	90.8	0.495	1444.3
220.0	-1.05	-1.05	34.08	27.30	65.4	0.502	1446.6
240.0	-0.70	-0.70	34.24	27.54	47.3	0.513	1449.0
260.0	-0.52	-0.52	34.34	27.62	34.4	0.518	1450.2
270.0	-0.40	-0.40	34.42	27.68	27.4	0.522	1451.9
280.0	-0.26	-0.26	34.49	27.77	23.6	0.525	1452.7
290.0	-0.15	-0.15	34.54	27.83	20.4	0.532	1453.8
300.0	0.00	0.00	34.63	27.85	17.8	0.537	1454.3
320.0	0.07	0.07	34.69	27.87	15.1	0.541	1454.8
330.0	0.13	0.13	34.71	27.89	12.9	0.541	1455.2
350.0	0.21	0.21	34.73	27.91	10.6	0.546	1455.6
370.0	0.34	0.34	34.76	27.91	8.9	0.550	1456.3
390.0	0.38	0.38	34.80	27.94	7.8	0.553	1457.4
410.0	0.41	0.41	34.81	27.95	6.4	0.557	1457.9
430.0	0.44	0.44	34.82	27.96	5.9	0.560	1458.8
450.0	0.46	0.46	34.83	27.96	5.1	0.564	1459.2
470.0	0.47	0.47	34.84	27.97	4.1	0.567	1459.3
491.3	0.47	0.47	34.84	27.97	15.1	0.567	1459.3

ROT NUM = 1  
ROT NUM = 2  
DEPTH 4.1  
491.5  
TEMP. -1.60  
0.46  
SALIN 30.41  
34.85

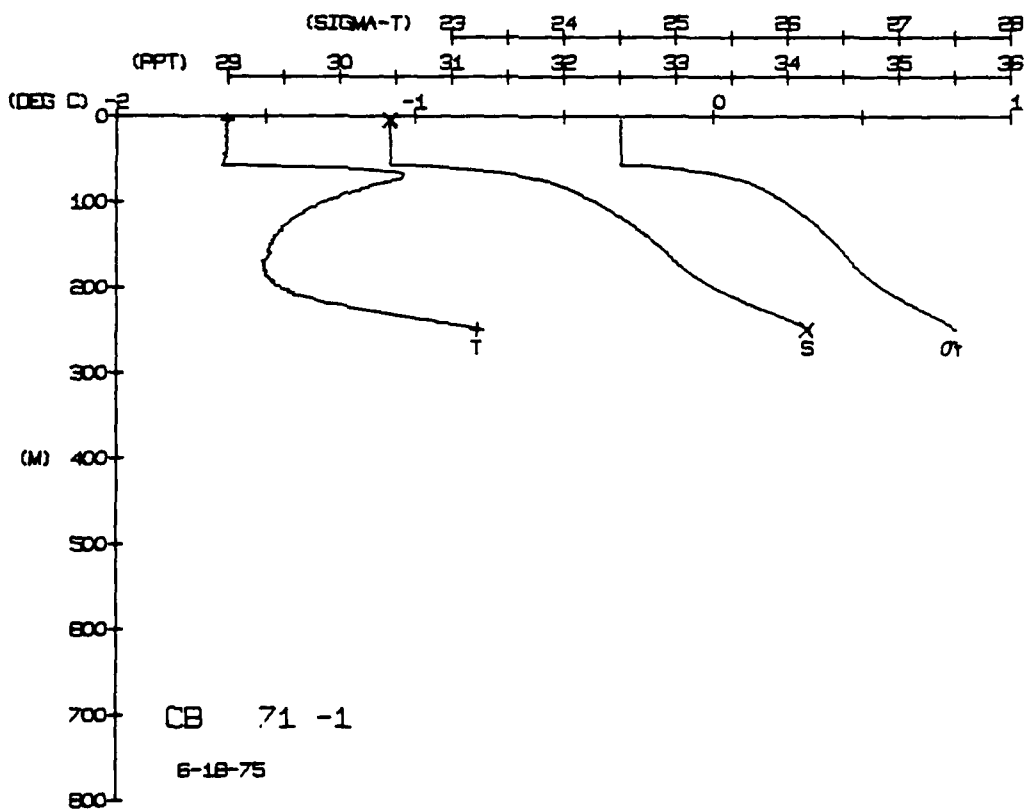
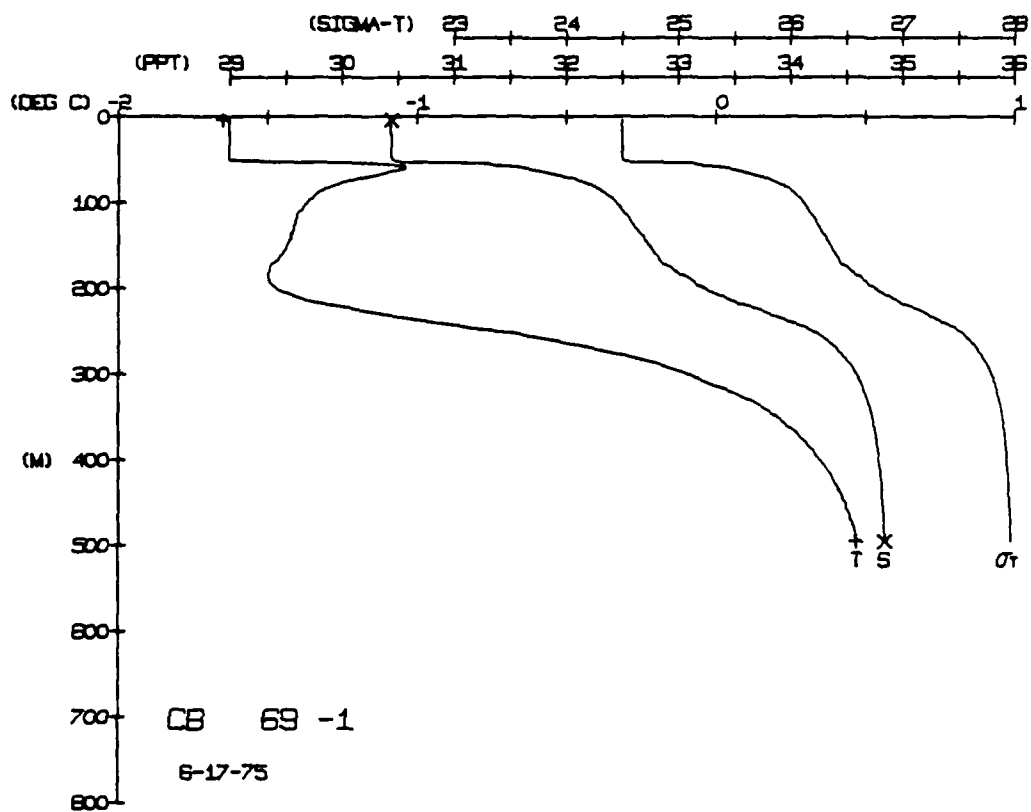
CARIBOU STATION 67(1) CTD 16/JUN/1975 1815 GMT CODE = 2  
LAT = 75.6343N LNG = 148.2242W LTER = 1.0 LGCR = 7.0  
AIR TEMP = -2.0 BAROM = 1023.2 WIND = 43.5 SPEED = 45.8

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0.0	-1.61	-1.61	30.41	24.48	346.4	0.000	1435.3
5.0	-1.61	-1.61	30.41	24.48	346.4	0.017	1435.3
10.0	-1.61	-1.61	30.41	24.48	345.9	0.035	1435.4
15.0	-1.62	-1.62	30.42	24.49	345.1	0.052	1435.5
25.0	-1.63	-1.63	30.43	24.49	344.8	0.070	1435.5
30.0	-1.64	-1.64	30.43	24.49	344.4	0.087	1435.6
35.0	-1.64	-1.64	30.43	24.50	344.4	0.104	1435.7
45.0	-1.64	-1.64	30.44	24.50	343.8	0.139	1435.8
55.0	-1.64	-1.64	30.44	24.50	342.7	0.174	1435.9
60.0	-1.63	-1.63	30.45	24.51	342.7	0.191	1436.0
65.0	-1.63	-1.63	30.45	24.51	342.7	0.207	1436.1
70.0	-1.08	-1.08	31.94	25.90	305.7	0.222	1440.1
75.0	-1.04	-1.04	31.64	25.24	275.4	0.235	1440.8
80.0	-1.12	-1.12	31.95	25.88	228.1	0.260	1441.1
90.0	-1.24	-1.24	32.16	26.12	198.5	0.282	1441.9
100.0	-1.32	-1.32	32.44	26.30	189.5	0.302	1441.0
110.0	-1.38	-1.38	32.56	26.44	180.4	0.322	1441.2
120.0	-1.44	-1.44	32.75	26.57	173.3	0.341	1441.4
130.0	-1.47	-1.47	32.84	26.64	165.5	0.359	1441.4
140.0	-1.48	-1.48	32.94	26.64	158.7	0.376	1441.8
150.0	-1.50	-1.50	33.01	26.67	150.3	0.408	1442.0
160.0	-1.51	-1.51	33.12	26.70	136.8	0.422	1442.3
170.0	-1.49	-1.49	33.37	26.76	127.9	0.462	1443.0
180.0	-1.45	-1.45	33.55	26.85	119.3	0.474	1443.5
200.0	-1.39	-1.39	33.68	26.97	107.9	0.484	1445.1
220.0	-1.27	-1.27	34.02	27.12	80.3	0.493	1446.3
240.0	-1.11	-1.11	34.21	27.42	65.2	0.500	1447.6
260.0	-0.93	-0.93	34.34	27.57	56.2	0.512	1448.7
270.0	-0.76	-0.76	34.33	27.61	48.0	0.516	1449.8
280.0	-0.60	-0.60	34.40	27.67	47.8	0.520	1450.7
290.0	-0.43	-0.43	34.48	27.72	37.9	0.524	1451.3
300.0	-0.23	-0.23	34.54	27.80	34.0	0.527	1452.3
320.0	0.00	0.00	34.59	27.83	30.6	0.530	1453.5
330.0	0.07	0.07	34.66	27.85	26.0	0.533	1454.1
350.0	0.12	0.12	34.71	27.87	22.4	0.536	1454.6
370.0	0.23	0.23	34.76	27.89	22.1	0.540	1455.0
390.0	0.33	0.33	34.80	27.94	19.4	0.544	1455.4
410.0	0.36	0.36	34.81	27.95	17.1	0.552	1456.1
430.0	0.39	0.39	34.82	27.96	16.3	0.555	1457.3
450.0	0.41	0.41	34.83	27.97	15.0	0.558	1458.3
470.0	0.43	0.43	34.85	27.98	14.6	0.561	1459.1
490.0	0.45	0.45	34.86	27.99	14.1	0.567	1459.8
530.0	0.44	0.44	34.86	27.99	13.3	0.570	1459.8
550.0	0.42	0.42	34.86	27.99	13.1	0.575	1460.4
570.0	0.38	0.38	34.87	28.00	12.6	0.578	1460.9
610.0	0.36	0.36	34.87	28.00	12.4	0.581	1461.1
630.0	0.34	0.34	34.87	28.01	12.1	0.583	1461.3
650.0	0.31	0.31	34.87	28.01	11.8	0.588	1461.3
670.0	0.25	0.25	34.87	28.01	11.5	0.590	1461.7
690.0	0.24	0.24	34.87	28.01	11.2	0.592	1461.9
710.0	0.22	0.22	34.88	28.01	11.0	0.595	1462.1
734.5	0.21	0.21	34.88	28.01	10.9	0.595	1462.1

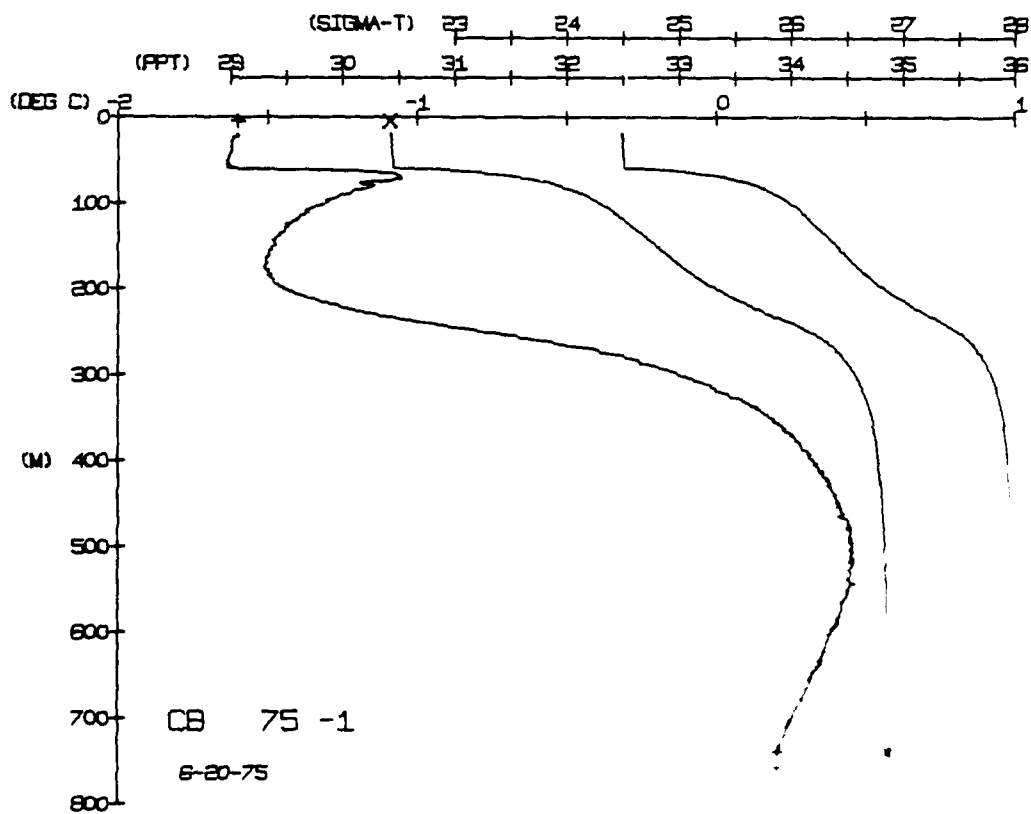
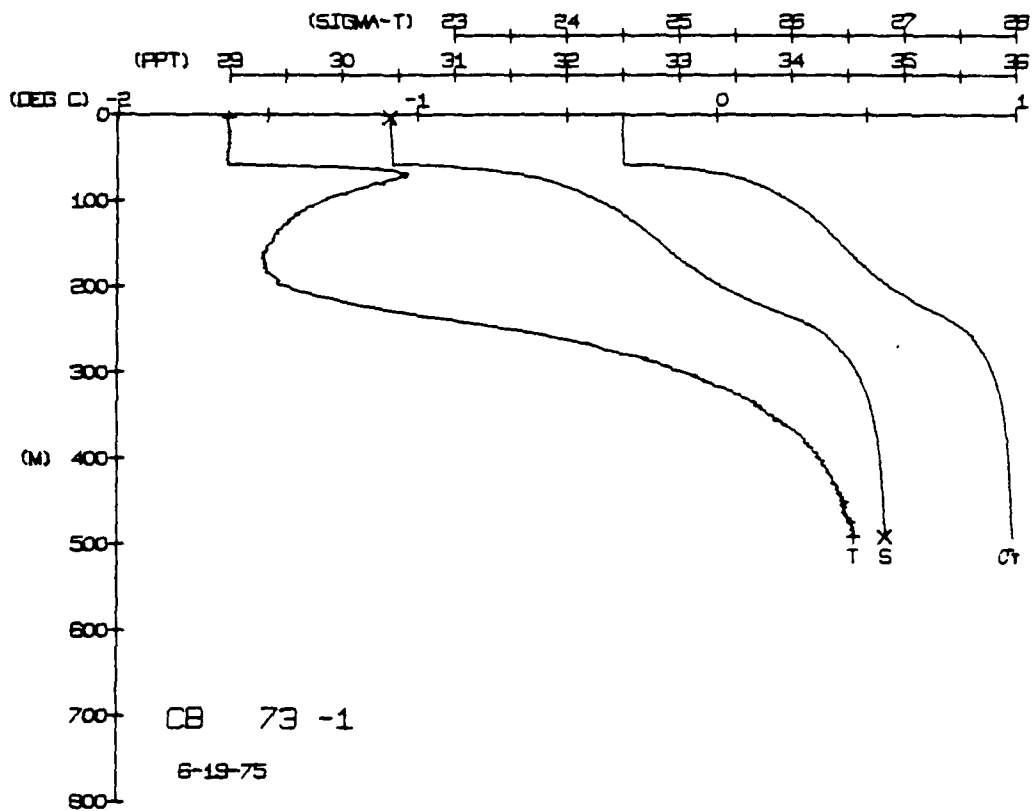
TEMP. -1.61  
0.72  
SALIN 30.41  
34.88











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LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES NY

F/G 8/10

ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)

FEB 80 E BAUER, K HUNKINS, T O MANLEY

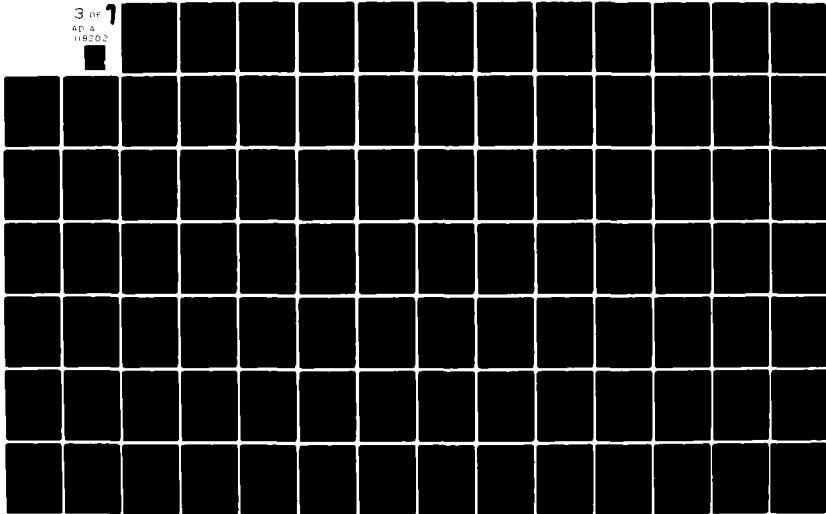
N00014-76-C-0004

UNCLASSIFIED

LOGO-CU-8-80

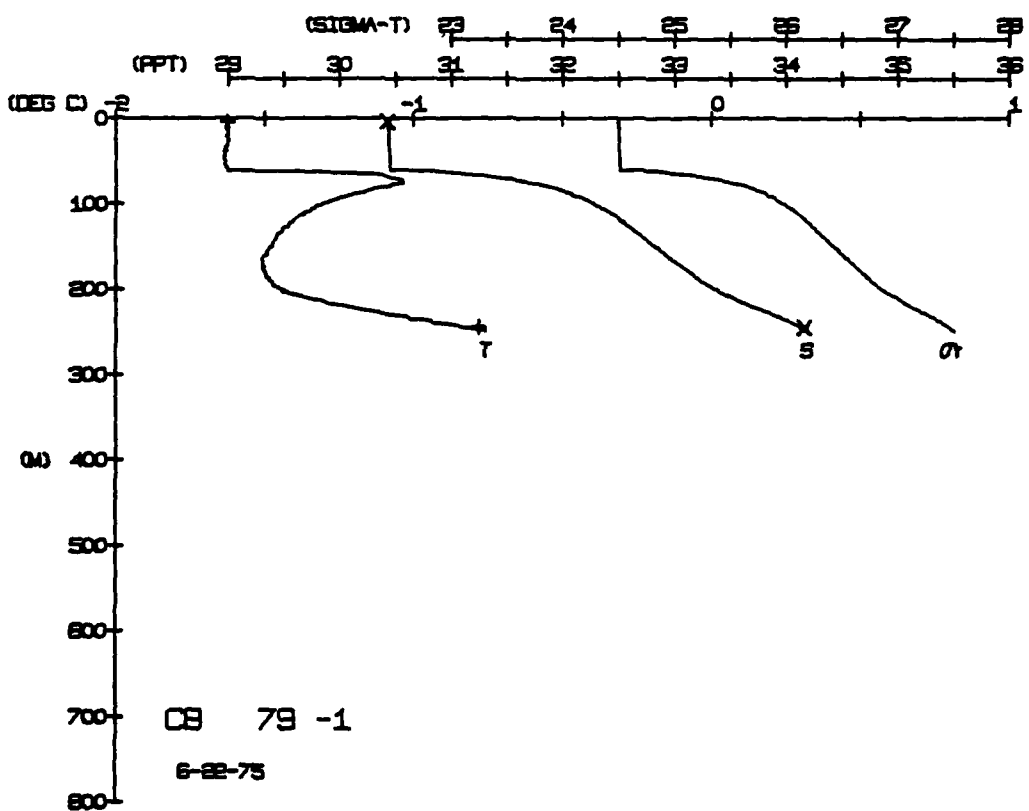
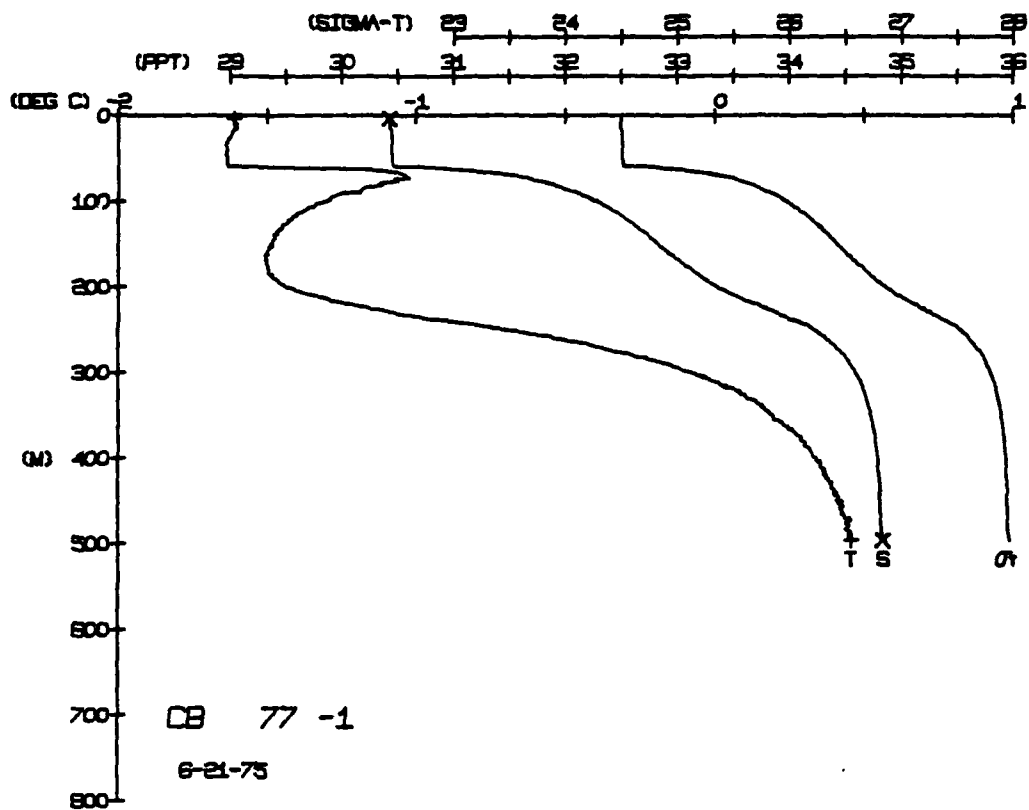
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3 OF 1  
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118202

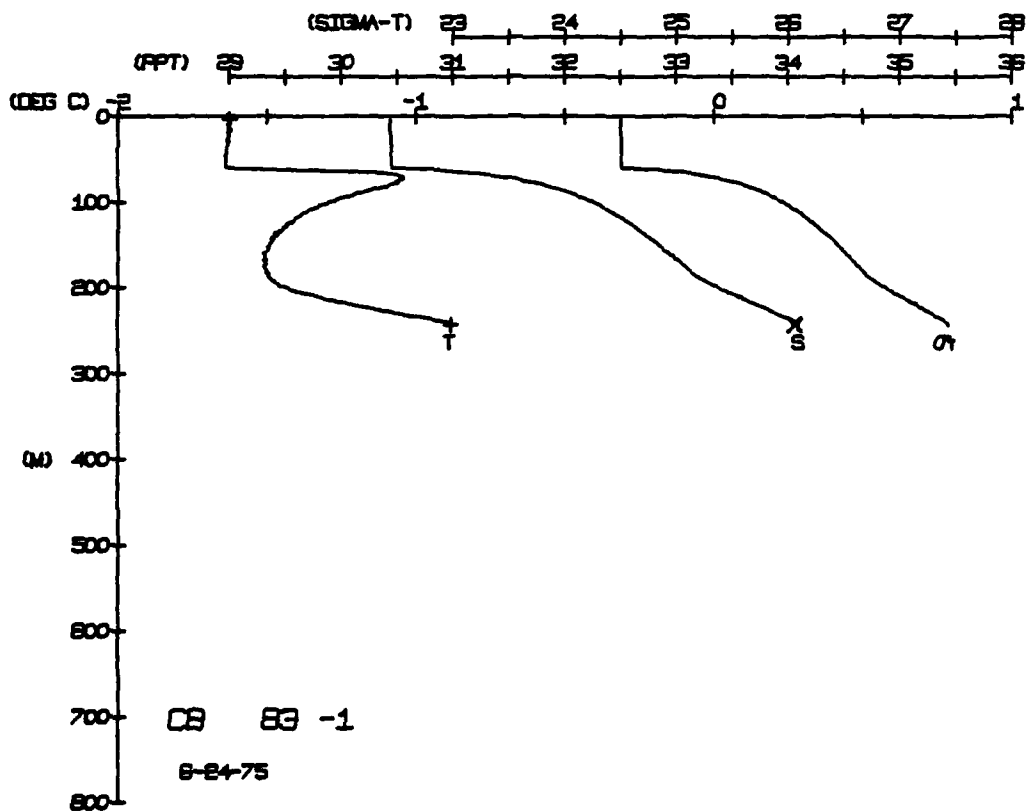
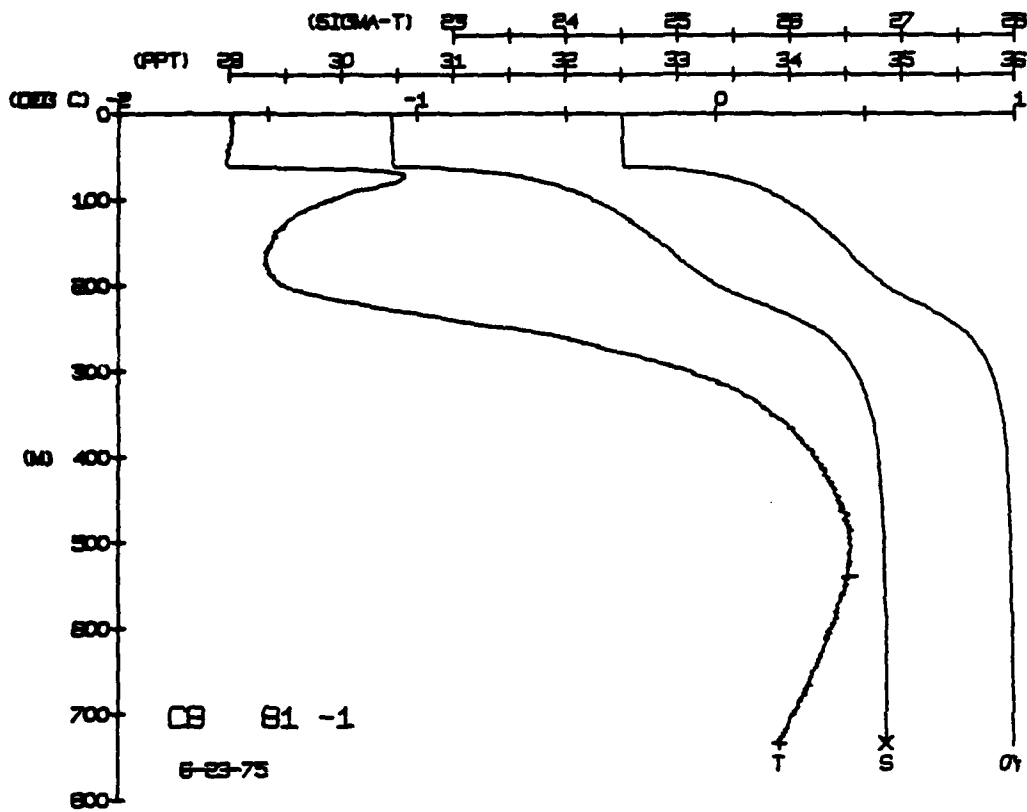




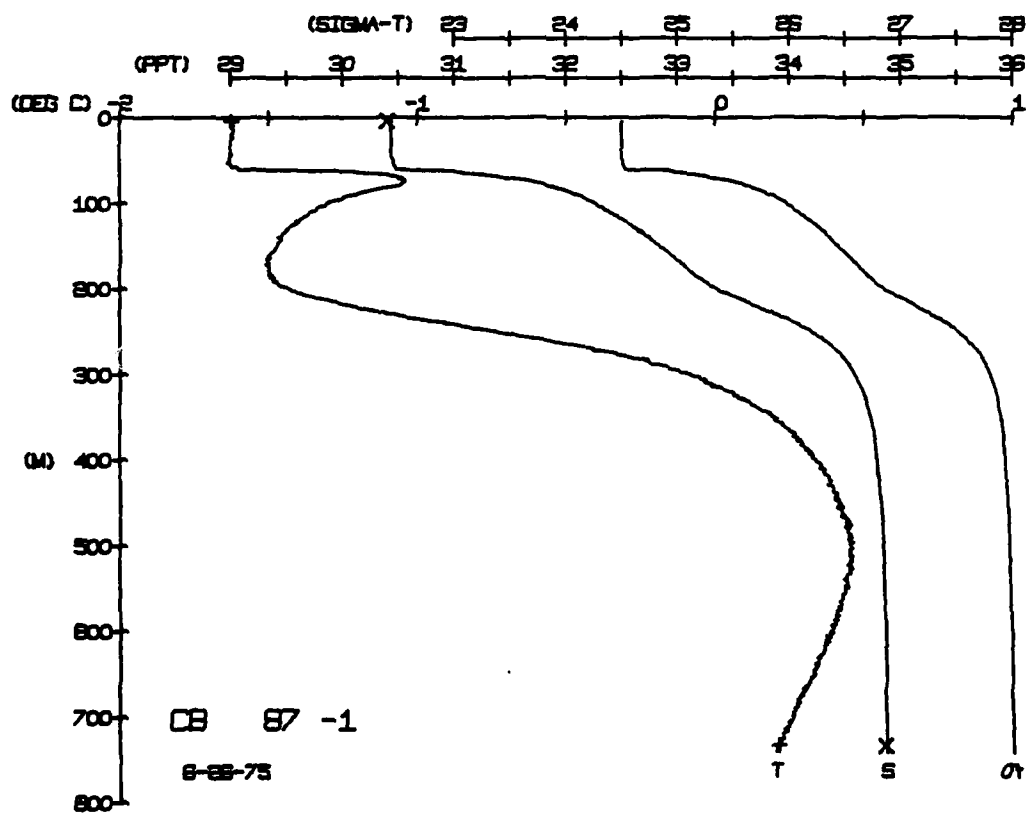
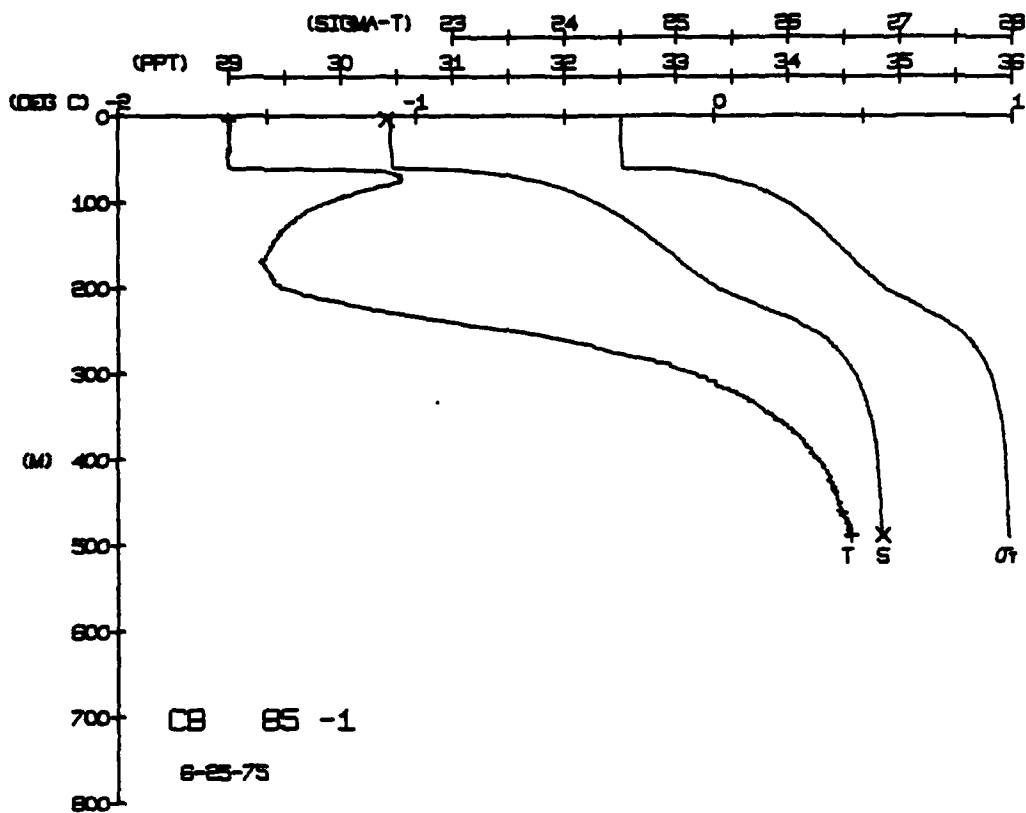












CARIBOU STATION 89(1) CTD 27/JUN/1975 1802 GMT CODE = 3  
 LAT = 75.7305N LNG = 149.1115W UTER = 0. UGER = 0.  
 AIR TEMP = 0.1 BAROM = 1011.4 WIND = 91.8 SPEED = 34.9

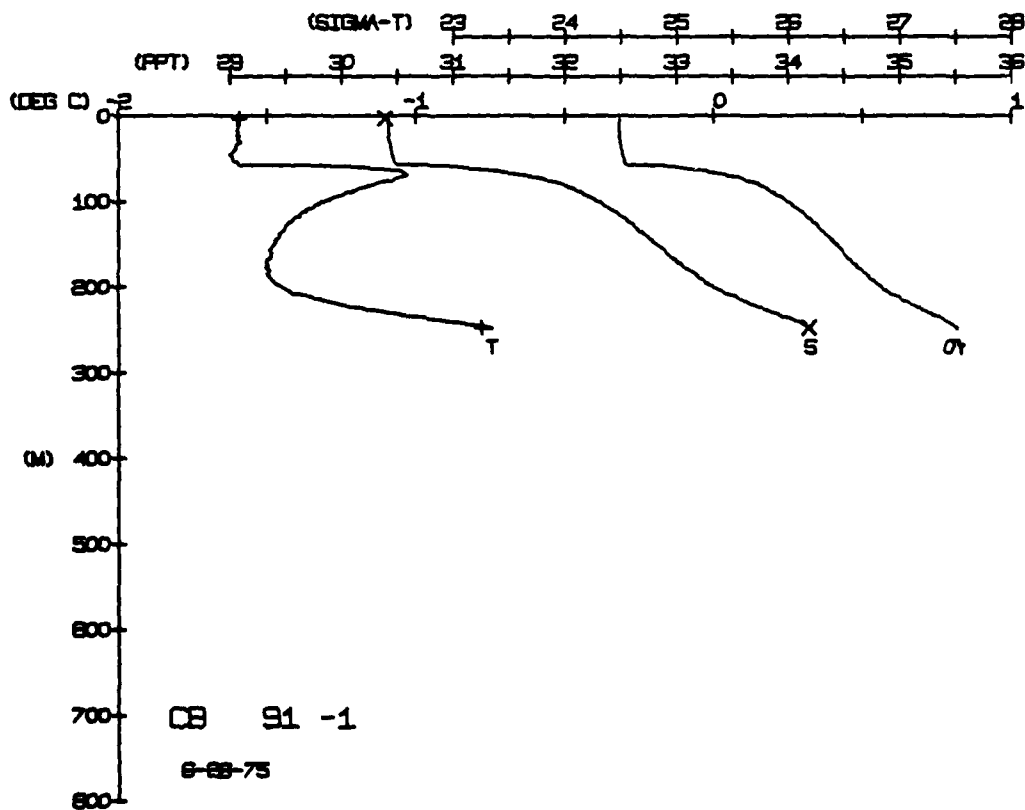
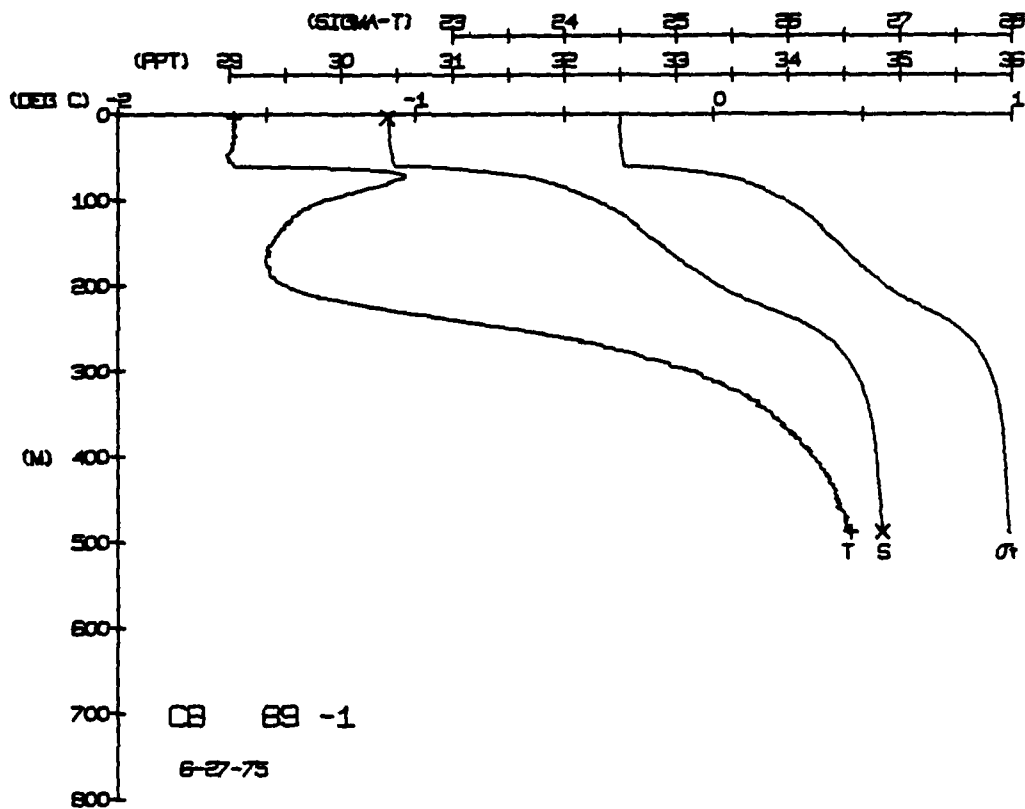
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYMH1	SOUND
0.0	1.61	1.61	30.43	24.49	345.2	0.000	1435.3
0.5	1.61	1.61	30.43	24.49	345.2	0.017	1435.4
1.0	1.61	1.61	30.43	24.49	345.2	0.017	1435.5
1.5	1.61	1.61	30.43	24.49	345.2	0.052	1435.6
2.0	1.61	1.61	30.43	24.49	345.2	0.067	1435.7
2.5	1.61	1.61	30.43	24.49	345.2	0.067	1435.8
3.0	1.61	1.61	30.44	24.50	345.2	0.121	1435.9
3.5	1.61	1.61	30.44	24.50	345.2	0.121	1435.9
4.0	1.61	1.61	30.44	24.50	345.2	0.156	1436.0
4.5	1.63	1.63	30.45	24.51	345.2	0.173	1436.1
5.0	1.63	1.63	30.46	24.52	345.2	0.191	1436.2
5.5	1.63	1.63	30.46	24.52	345.2	0.208	1436.3
6.0	1.60	1.60	30.47	24.53	345.2	0.223	1440.3
6.5	1.60	1.60	30.47	24.53	345.2	0.238	1440.4
7.0	1.60	1.60	30.43	24.53	345.2	0.263	1441.1
7.5	1.60	1.60	30.43	24.53	345.2	0.286	1441.1
8.0	1.60	1.60	30.43	24.53	345.2	0.308	1441.1
8.5	1.60	1.60	30.43	24.53	345.2	0.327	1441.1
9.0	1.60	1.60	30.43	24.53	345.2	0.347	1441.1
9.5	1.60	1.60	30.43	24.53	345.2	0.362	1441.1
10.0	1.60	1.60	30.43	24.53	345.2	0.398	1441.1
10.5	1.60	1.60	30.43	24.53	345.2	0.419	1441.1
11.0	1.60	1.60	30.43	24.53	345.2	0.443	1442.3
11.5	1.60	1.60	30.43	24.53	345.2	0.466	1443.3
12.0	1.60	1.60	30.43	24.53	345.2	0.480	1444.3
12.5	1.60	1.60	30.43	24.53	345.2	0.499	1445.3
13.0	1.60	1.60	30.43	24.53	345.2	0.506	1446.3
13.5	1.60	1.60	30.43	24.53	345.2	0.513	1447.3
14.0	1.60	1.60	30.43	24.53	345.2	0.522	1450.2
14.5	1.60	1.60	30.43	24.53	345.2	0.530	1451.2
15.0	1.60	1.60	30.43	24.53	345.2	0.533	1452.2
15.5	1.60	1.60	30.43	24.53	345.2	0.536	1453.2
16.0	1.60	1.60	30.43	24.53	345.2	0.541	1454.2
16.5	1.60	1.60	30.43	24.53	345.2	0.546	1455.2
17.0	1.60	1.60	30.43	24.53	345.2	0.554	1456.2
17.5	1.60	1.60	30.43	24.53	345.2	0.557	1457.2
18.0	1.60	1.60	30.43	24.53	345.2	0.564	1458.2
18.5	1.60	1.60	30.43	24.53	345.2	0.567	1458.2
19.0	1.60	1.60	30.43	24.53	345.2	0.567	1458.2

BUT NUM = 1  
 BUT NUM = 2  
 DEPTH 4.1  
 487.6  
 TEMP. -1.61  
 0.46  
 SALIN 30.41  
 34.84

CARIBOU STATION 91(1) CTD 28/JUN/1975 1810 GMT CODE = 1  
 LAT = 75.7557N LNG = 148.8538W UTER = 0. UGER = 0.  
 AIR TEMP = 0.3 BAROM = 1004.6 WIND = 264.2 SPEED = 76.7

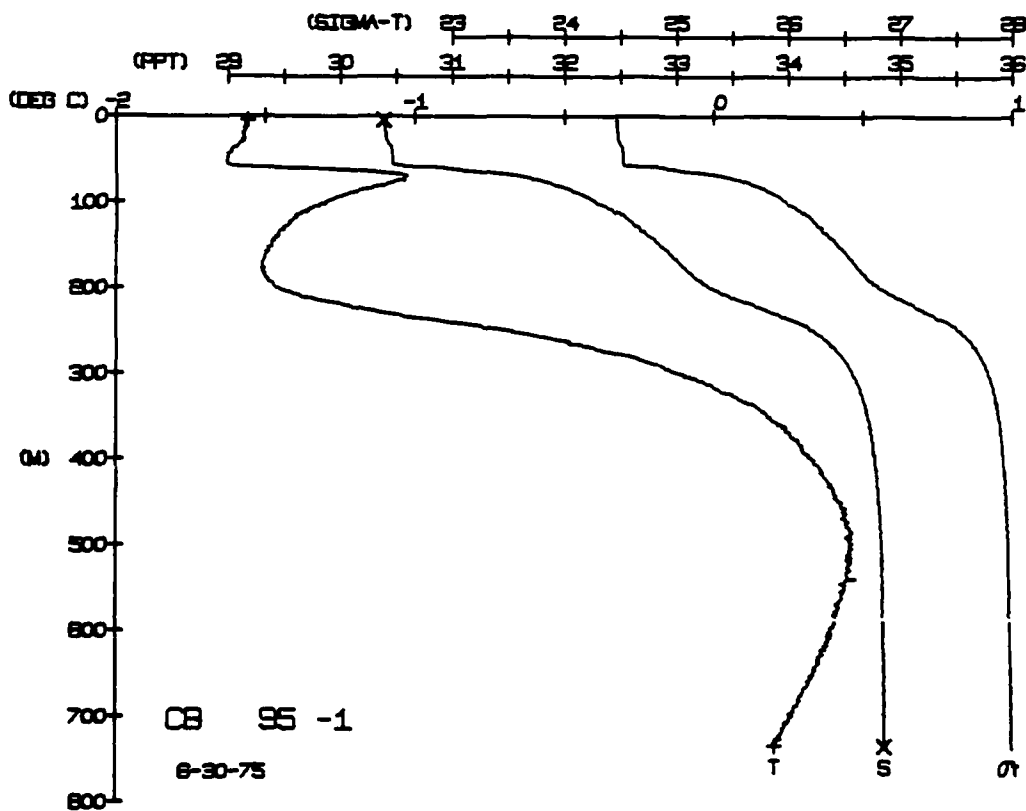
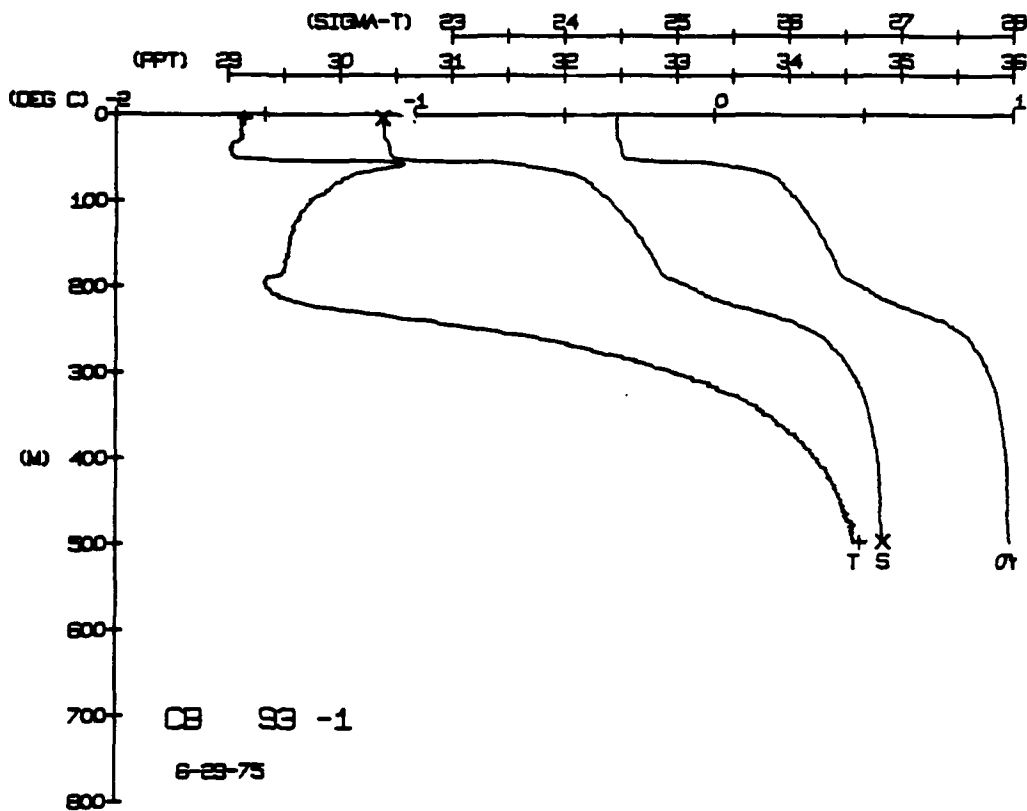
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYMH1	SOUND
0.0	1.61	1.61	30.42	24.48	345.8	0.000	1435.3
0.5	1.61	1.61	30.42	24.48	345.8	0.017	1435.4
1.0	1.60	1.60	30.42	24.48	345.8	0.035	1435.5
1.5	1.60	1.60	30.42	24.48	345.8	0.052	1435.6
2.0	1.60	1.60	30.42	24.48	345.8	0.070	1435.7
2.5	1.60	1.60	30.42	24.48	345.8	0.087	1435.7
3.0	1.60	1.60	30.44	24.49	344.9	0.122	1435.8
3.5	1.60	1.60	30.44	24.49	344.9	0.122	1435.8
4.0	1.61	1.61	30.45	24.50	347.5	0.156	1435.9
4.5	1.62	1.62	30.45	24.51	347.5	0.174	1436.0
5.0	1.62	1.62	30.45	24.51	347.5	0.191	1436.1
5.5	1.61	1.61	30.48	24.52	340.6	0.207	1439.1
6.0	1.61	1.61	31.05	24.53	297.3	0.224	1440.4
6.5	1.61	1.61	31.42	24.53	252.7	0.234	1440.8
7.0	1.61	1.61	31.69	24.53	226.4	0.258	1441.0
7.5	1.61	1.61	32.15	24.53	201.2	0.281	1441.0
8.0	1.61	1.61	32.23	24.53	190.2	0.301	1441.0
8.5	1.61	1.61	32.23	24.53	182.1	0.321	1441.0
9.0	1.61	1.61	32.23	24.53	174.3	0.340	1441.0
9.5	1.61	1.61	32.23	24.53	167.3	0.358	1441.0
10.0	1.61	1.61	32.23	24.53	160.3	0.372	1441.0
10.5	1.61	1.61	32.23	24.53	153.0	0.408	1442.0
11.0	1.61	1.61	32.23	24.53	146.4	0.423	1442.0
11.5	1.61	1.61	32.23	24.53	137.4	0.437	1442.0
12.0	1.61	1.61	32.23	24.53	129.6	0.450	1443.0
12.5	1.61	1.61	32.23	24.53	120.9	0.463	1443.0
13.0	1.61	1.61	32.23	24.53	109.4	0.475	1444.0
13.5	1.61	1.61	32.23	24.53	95.3	0.485	1445.0
14.0	1.61	1.61	32.23	24.53	80.5	0.494	1446.0
14.5	1.61	1.61	32.23	24.53	65.5	0.501	1447.0
15.0	1.61	1.61	32.23	24.53	56.8	0.506	1448.0

BUT NUM = 1  
 BUT NUM = 2  
 DEPTH 2.7  
 247.3  
 TEMP. -1.60  
 -0.78  
 SALIN 30.39  
 34.19









CARIBOU STATION 96(1) CTD 1/JUL/1975 1822 GMT CODE = 3  
 LAT = 75.8398N LNG = 148.2319W LTER = 2 LGER = 3  
 AIR TEMP = 0.9 BAROM = 1002.5 WIND = 168.7 SPEED = 65.8

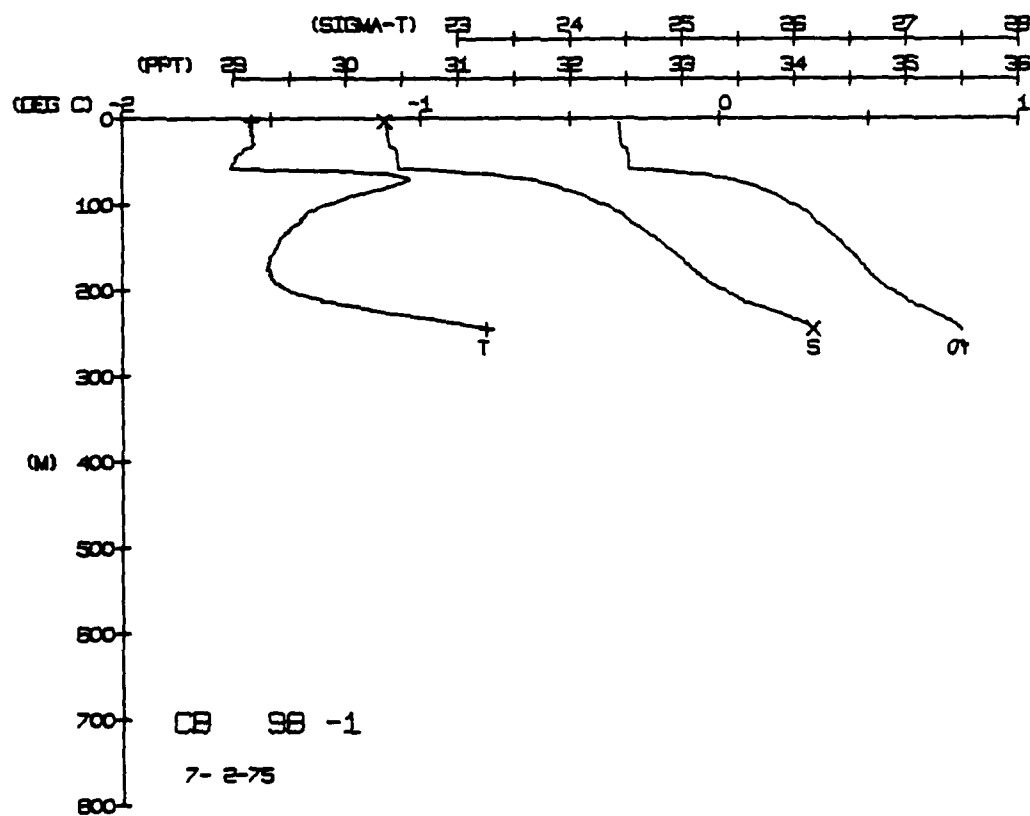
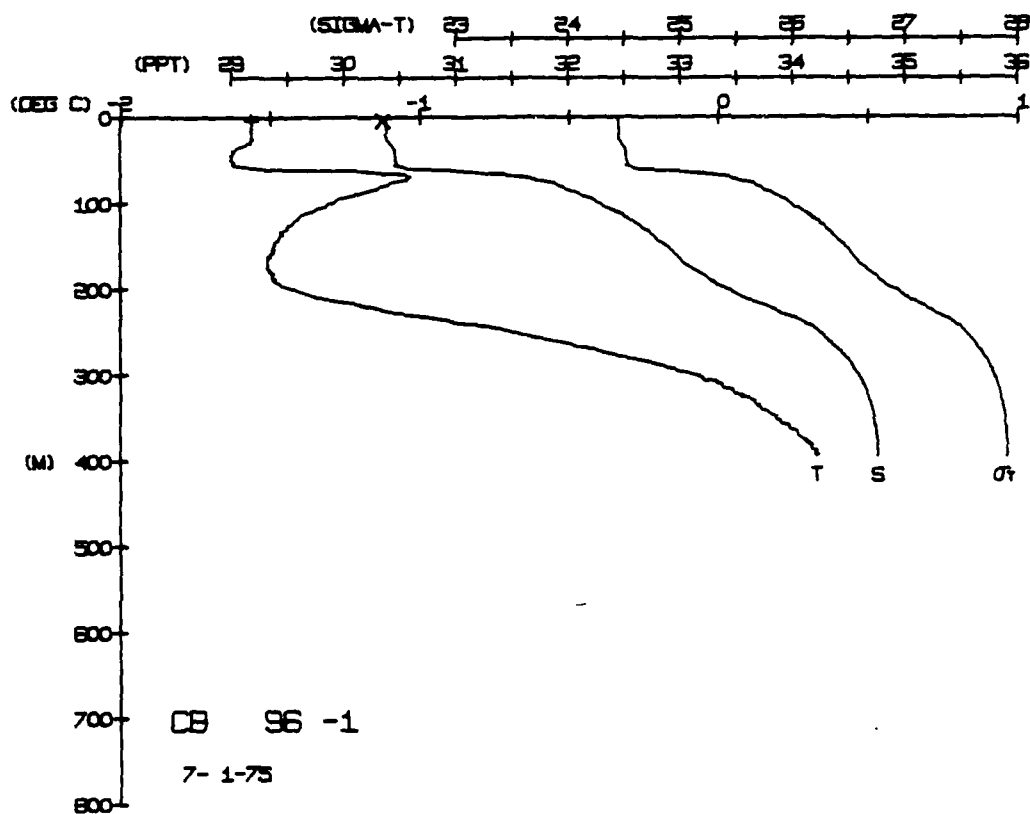
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.9	1.56	1.56	30.37	24.45	349.4	0.000	1435.5
3.0	1.56	1.56	30.37	24.45	349.3	0.014	1435.5
5.0	1.57	1.57	30.38	24.45	349.0	0.018	1435.5
10.0	1.56	1.56	30.38	24.45	349.0	0.033	1435.5
15.0	1.56	1.56	30.38	24.45	348.9	0.053	1435.5
20.0	1.56	1.56	30.41	24.45	348.0	0.088	1435.5
25.0	1.56	1.56	30.44	24.45	346.2	0.123	1435.5
30.0	1.56	1.56	30.45	24.45	346.5	0.147	1435.5
35.0	1.63	1.63	30.46	24.52	342.2	0.174	1435.5
40.0	1.63	1.63	30.46	24.53	341.1	0.192	1435.5
45.0	1.62	1.62	30.47	24.53	341.1	0.209	1435.5
50.0	1.55	1.55	30.56	24.60	338.5	0.224	1435.5
55.0	1.15	1.15	31.19	25.09	328.5	0.238	1440.0
60.0	1.03	1.03	31.59	25.64	315.8	0.263	1441.0
65.0	1.00	1.00	32.22	26.09	301.5	0.285	1441.0
70.0	1.20	1.20	32.22	26.09	291.0	0.302	1441.0
75.0	1.36	1.36	32.22	26.09	280.1	0.325	1441.0
80.0	1.47	1.47	32.22	26.09	268.3	0.343	1441.0
85.0	1.49	1.49	32.22	26.09	255.5	0.360	1441.0
90.0	1.50	1.50	32.22	26.09	242.4	0.379	1441.0
95.0	1.51	1.51	32.22	26.09	229.7	0.396	1441.0
100.0	1.50	1.50	32.22	26.09	216.9	0.411	1441.0
105.0	1.44	1.44	32.22	26.09	204.2	0.426	1441.0
110.0	1.35	1.35	32.22	26.09	191.5	0.445	1441.0
115.0	1.25	1.25	32.22	26.09	178.8	0.460	1441.0
120.0	1.08	1.08	32.22	26.09	166.1	0.486	1441.0
125.0	0.89	0.89	32.22	26.09	153.4	0.494	1441.0
130.0	0.71	0.71	32.22	26.09	140.7	0.507	1441.0
135.0	0.54	0.54	32.22	26.09	128.0	0.517	1441.0
140.0	0.33	0.33	32.22	26.09	115.3	0.525	1441.0
145.0	0.19	0.19	32.22	26.09	102.6	0.531	1441.0
150.0	0.04	0.04	32.22	26.09	89.9	0.537	1441.0
155.0	0.11	0.11	32.22	26.09	77.2	0.537	1441.0
160.0	0.13	0.13	32.22	26.09	64.5	0.537	1441.0
165.0	0.18	0.18	32.22	26.09	51.8	0.537	1441.0
170.0	0.25	0.25	32.22	26.09	39.1	0.541	1441.0
175.0	0.33	0.33	32.22	26.09	26.4	0.546	1441.0
180.0	0.31	0.31	32.22	26.09	13.7	0.551	1441.0
185.0	0.00	0.00	32.22	26.09	0.0	0.551	1441.0

BOT NUM = 1  
 BOT NUM = 2  
 DEPTH 3.7  
 TEMP. -1.56  
 SALIN 30.34

CARIBOU STATION 96(1) CTD 7/JUL/1975 1832 GMT CODE = 1  
 LAT = 75.8345N LNG = 148.1593W LTER = 1 LGER = 2  
 AIR TEMP = -0.4 BAROM = 1007.2 WIND = 244.2 SPEED = 67.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.9	1.57	1.57	30.36	24.43	350.5	0.000	1435.5
3.0	1.57	1.57	30.36	24.43	350.4	0.017	1435.5
5.0	1.57	1.57	30.36	24.44	350.2	0.018	1435.5
10.0	1.57	1.57	30.37	24.44	349.3	0.033	1435.5
15.0	1.56	1.56	30.37	24.45	349.2	0.053	1435.5
20.0	1.56	1.56	30.38	24.45	348.4	0.088	1435.5
25.0	1.56	1.56	30.38	24.45	348.1	0.106	1435.5
30.0	1.56	1.56	30.44	24.51	344.2	0.140	1435.5
35.0	1.62	1.62	30.45	24.52	342.0	0.158	1435.5
40.0	1.62	1.62	30.46	24.52	341.4	0.175	1435.5
45.0	1.64	1.64	30.47	24.52	341.4	0.192	1435.5
50.0	1.46	1.46	30.74	24.74	320.6	0.224	1440.0
55.0	1.10	1.10	31.58	25.17	278.4	0.237	1440.0
60.0	1.05	1.05	31.58	25.17	260.5	0.262	1441.0
65.0	1.20	1.20	32.22	25.65	235.5	0.285	1441.0
70.0	1.39	1.39	32.22	25.65	220.2	0.302	1441.0
75.0	1.44	1.44	32.22	25.65	207.5	0.324	1441.0
80.0	1.47	1.47	32.22	25.65	192.0	0.349	1441.0
85.0	1.48	1.48	32.22	25.65	174.9	0.367	1441.0
90.0	1.50	1.50	32.22	25.65	156.4	0.379	1441.0
95.0	1.51	1.51	32.22	25.65	142.9	0.411	1441.0
100.0	1.44	1.44	32.22	25.65	128.0	0.426	1441.0
105.0	1.35	1.35	32.22	25.65	115.3	0.445	1441.0
110.0	1.25	1.25	32.22	25.65	102.6	0.460	1441.0
115.0	1.08	1.08	32.22	25.65	89.9	0.486	1441.0
120.0	0.89	0.89	32.22	25.65	77.2	0.494	1441.0
125.0	0.71	0.71	32.22	25.65	64.5	0.507	1441.0
130.0	0.54	0.54	32.22	25.65	51.8	0.517	1441.0
135.0	0.33	0.33	32.22	25.65	39.1	0.525	1441.0
140.0	0.19	0.19	32.22	25.65	26.4	0.531	1441.0
145.0	0.04	0.04	32.22	25.65	13.7	0.537	1441.0
150.0	0.11	0.11	32.22	25.65	0.0	0.537	1441.0
155.0	0.13	0.13	32.22	25.65	0.0	0.537	1441.0
160.0	0.18	0.18	32.22	25.65	0.0	0.541	1441.0
165.0	0.25	0.25	32.22	25.65	0.0	0.546	1441.0
170.0	0.33	0.33	32.22	25.65	0.0	0.551	1441.0
175.0	0.31	0.31	32.22	25.65	0.0	0.551	1441.0
180.0	0.00	0.00	32.22	25.65	0.0	0.551	1441.0

BOT NUM = 1  
 BOT NUM = 2  
 DEPTH 3.4  
 TEMP. -1.57  
 SALIN 30.34



CARIBOU STATION 102(1) CTD 4/JUL/1975 1916 GMT CODE = 3  
LAT = 75.8092N LNG = 147.4056W I.TER = 1, LGER = 2  
AIR TEMP = 0.2 WIND = 1001.6 WIND = 247.4 SPEED = 67.4

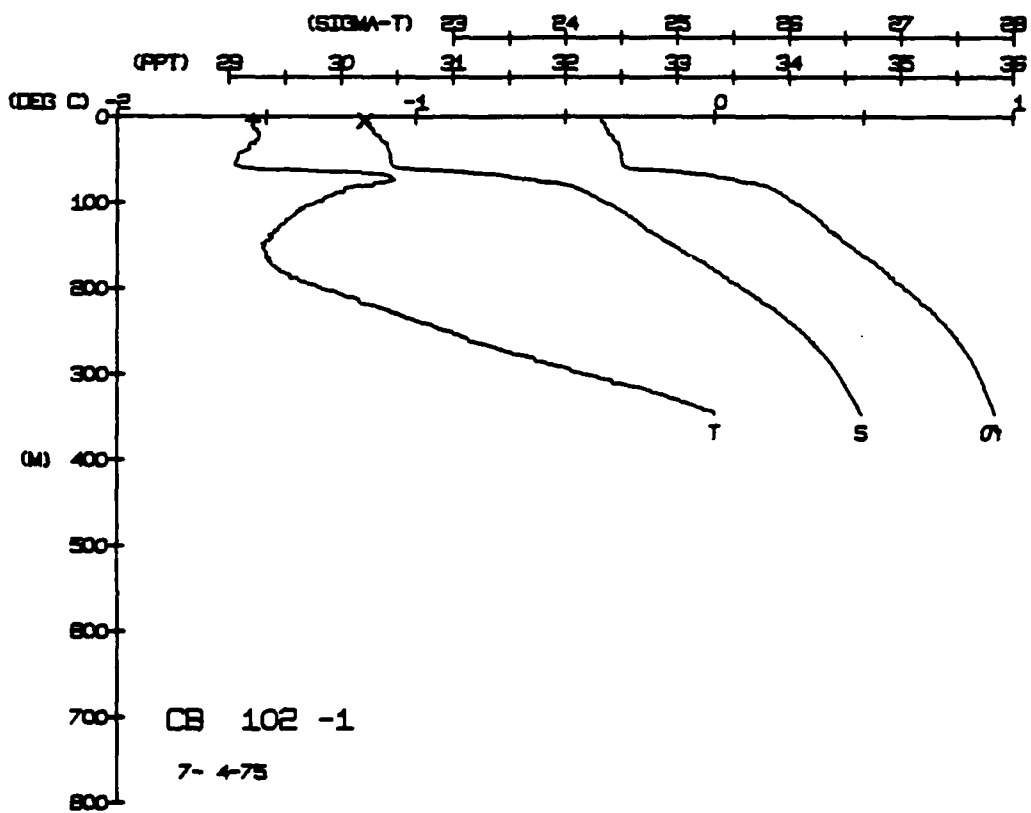
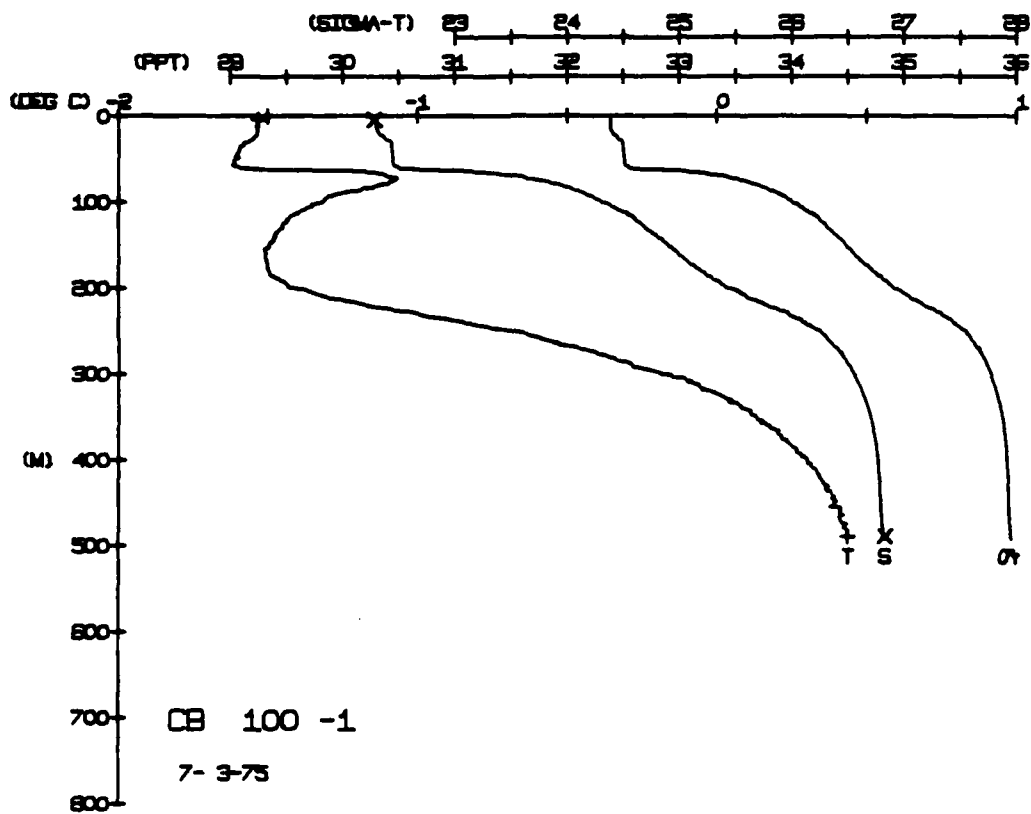
DEPTH	TEMP	PTEMP	SALIN	SIG 1	SPVOL	DYNT	SOUND
0	5.55	1.55	30.22	22	361.3	0.000	1435.3
1	5.55	1.55	30.22	22	361.3	0.015	1435.4
2	5.55	1.55	30.22	22	358.1	0.036	1435.5
3	5.55	1.55	30.22	22	355.0	0.054	1435.6
4	5.55	1.55	30.22	22	355.0	0.072	1435.7
5	5.55	1.55	30.22	22	355.0	0.090	1435.8
6	5.55	1.55	30.22	22	355.0	0.108	1435.9
7	5.55	1.55	30.22	22	355.0	0.122	1436.0
8	5.55	1.55	30.22	22	355.0	0.140	1436.1
9	5.55	1.55	30.22	22	355.0	0.160	1436.2
10	5.55	1.55	30.22	22	355.0	0.177	1436.3
11	5.55	1.55	30.22	22	355.0	0.194	1436.4
12	5.55	1.55	30.22	22	355.0	0.212	1436.5
13	5.55	1.55	30.22	22	355.0	0.224	1436.6
14	5.55	1.55	30.22	22	355.0	0.241	1436.7
15	5.55	1.55	30.22	22	355.0	0.266	1436.8
16	5.55	1.55	30.22	22	355.0	0.288	1436.9
17	5.55	1.55	30.22	22	355.0	0.307	1437.0
18	5.55	1.55	30.22	22	355.0	0.325	1437.1
19	5.55	1.55	30.22	22	355.0	0.343	1437.2
20	5.55	1.55	30.22	22	355.0	0.363	1437.3
21	5.55	1.55	30.22	22	355.0	0.395	1437.4
22	5.55	1.55	30.22	22	355.0	0.409	1437.5
23	5.55	1.55	30.22	22	355.0	0.435	1437.6
24	5.55	1.55	30.22	22	355.0	0.457	1437.7
25	5.55	1.55	30.22	22	355.0	0.476	1437.8
26	5.55	1.55	30.22	22	355.0	0.492	1437.9
27	5.55	1.55	30.22	22	355.0	0.504	1438.0
28	5.55	1.55	30.22	22	355.0	0.515	1438.1
29	5.55	1.55	30.22	22	355.0	0.524	1438.2
30	5.55	1.55	30.22	22	355.0	0.531	1438.3
31	5.55	1.55	30.22	22	355.0	0.537	1438.4
32	5.55	1.55	30.22	22	355.0	0.539	1438.5

TEMP. -1.54  
DEPTH 4.4  
SALIN 30.21  
HOT NUM = 1

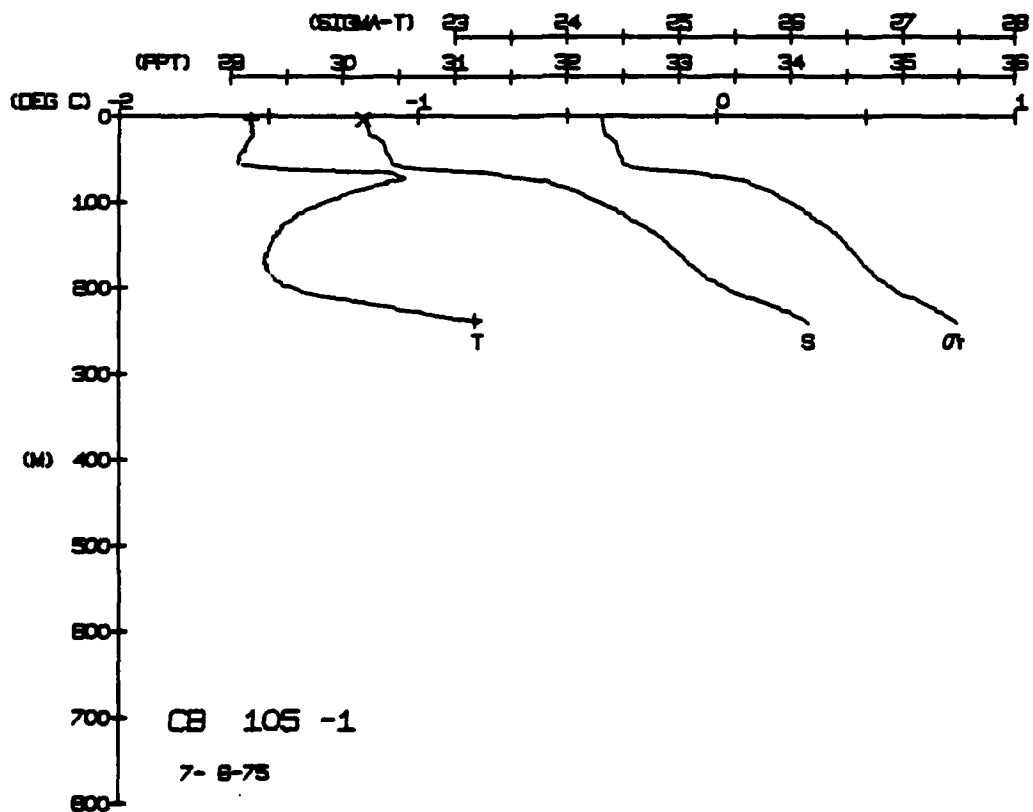
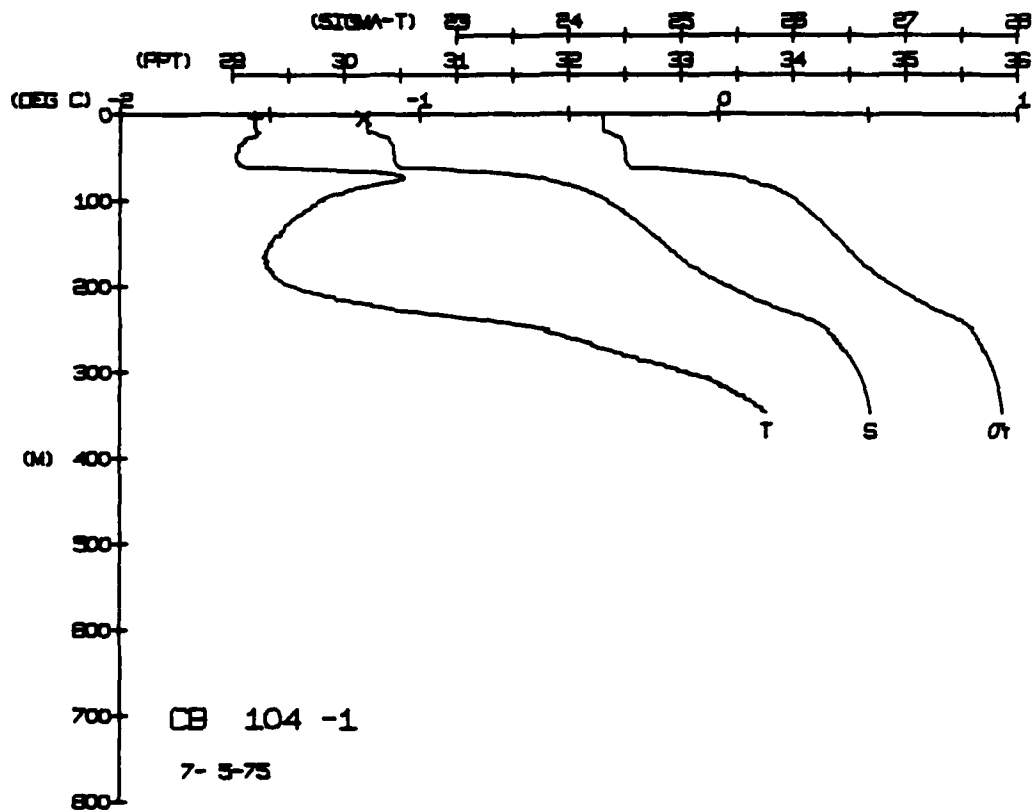
CARIBOU STATION 100(1) CTD 3/JUL/1975 1829 GMT CODE = 3  
LAT = 75.8465N LNG = 147.7009W I.TER = 1, LGER = 2  
AIR TEMP = -0.4 WIND = 1003.3 WIND = 244.2 SPEED = 67.0

DEPTH	TEMP	PTEMP	SALIN	SIG 1	SPVOL	DYNT	SOUND
0	5.55	1.55	30.22	22	355.0	0.000	1435.3
1	5.55	1.55	30.22	22	355.0	0.013	1435.4
2	5.55	1.55	30.22	22	355.0	0.036	1435.5
3	5.55	1.55	30.22	22	355.0	0.054	1435.6
4	5.55	1.55	30.22	22	355.0	0.072	1435.7
5	5.55	1.55	30.22	22	355.0	0.089	1435.8
6	5.55	1.55	30.22	22	355.0	0.106	1435.9
7	5.55	1.55	30.22	22	355.0	0.124	1436.0
8	5.55	1.55	30.22	22	355.0	0.141	1436.1
9	5.55	1.55	30.22	22	355.0	0.158	1436.2
10	5.55	1.55	30.22	22	355.0	0.175	1436.3
11	5.55	1.55	30.22	22	355.0	0.193	1436.4
12	5.55	1.55	30.22	22	355.0	0.210	1436.5
13	5.55	1.55	30.22	22	355.0	0.228	1436.6
14	5.55	1.55	30.22	22	355.0	0.245	1436.7
15	5.55	1.55	30.22	22	355.0	0.263	1436.8
16	5.55	1.55	30.22	22	355.0	0.280	1436.9
17	5.55	1.55	30.22	22	355.0	0.298	1437.0
18	5.55	1.55	30.22	22	355.0	0.315	1437.1
19	5.55	1.55	30.22	22	355.0	0.333	1437.2
20	5.55	1.55	30.22	22	355.0	0.350	1437.3
21	5.55	1.55	30.22	22	355.0	0.368	1437.4
22	5.55	1.55	30.22	22	355.0	0.385	1437.5
23	5.55	1.55	30.22	22	355.0	0.403	1437.6
24	5.55	1.55	30.22	22	355.0	0.420	1437.7
25	5.55	1.55	30.22	22	355.0	0.438	1437.8
26	5.55	1.55	30.22	22	355.0	0.455	1437.9
27	5.55	1.55	30.22	22	355.0	0.473	1438.0
28	5.55	1.55	30.22	22	355.0	0.490	1438.1
29	5.55	1.55	30.22	22	355.0	0.508	1438.2
30	5.55	1.55	30.22	22	355.0	0.525	1438.3
31	5.55	1.55	30.22	22	355.0	0.543	1438.4
32	5.55	1.55	30.22	22	355.0	0.560	1438.5

TEMP. -1.53  
DEPTH 3.7  
SALIN 30.29  
HOT NUM = 2  
HOT NUM = 2

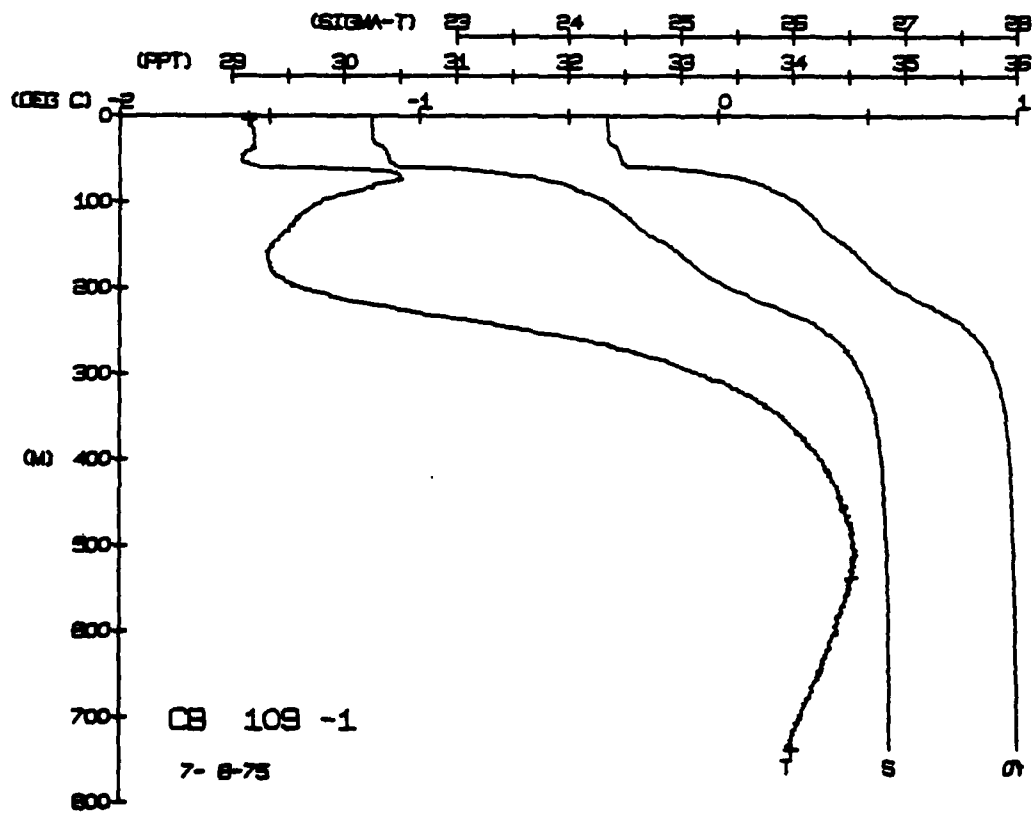
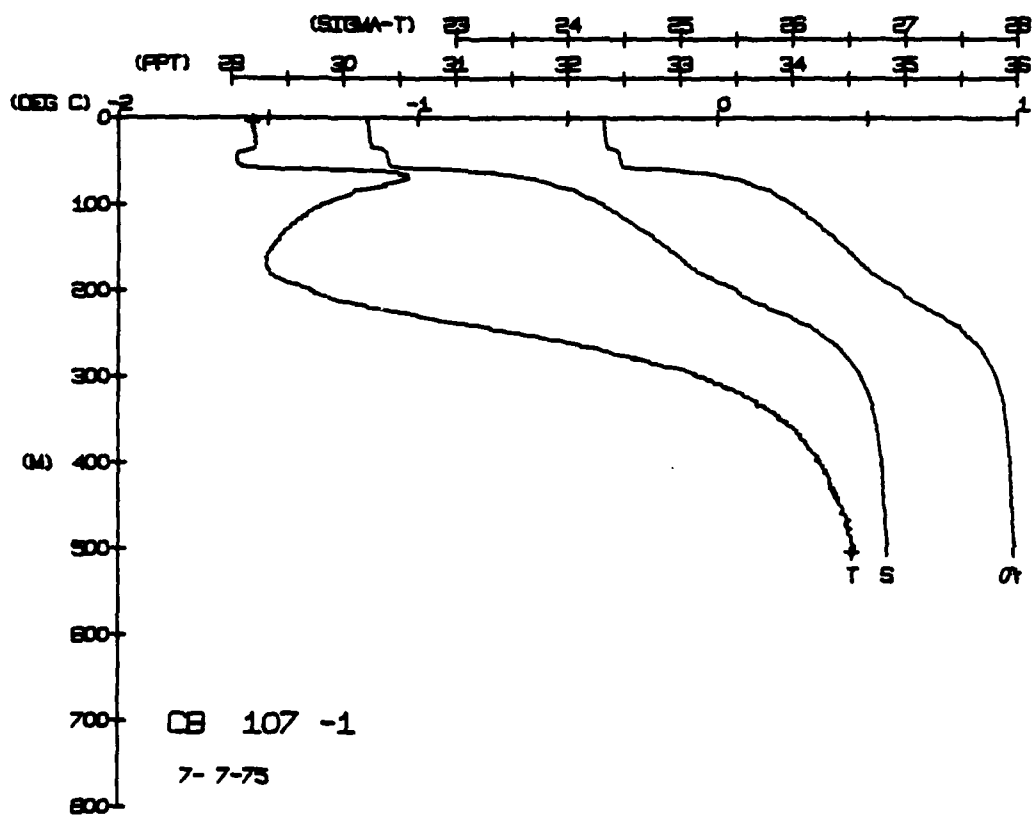












CARIBOU STATION 111(1) CTD 9/JUL/1975 1923 GMT CODE = 3  
 LAT = 75.690N LNC = 145.7398W LTER = 1 UGR = 22.2  
 AIR TEMP = 0.6 MAHUM = 1001.1 WIND = 251.2 SPEED = 52.2

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
0	54	54	30	24	363	0.000	33
10	54	54	30	24	362	0.000	35
20	54	54	30	24	361	0.000	35
30	54	54	30	24	360	0.000	35
40	54	54	30	24	359	0.000	35
50	54	54	30	24	358	0.000	35
60	54	54	30	24	357	0.000	35
70	54	54	30	24	356	0.000	35
80	54	54	30	24	355	0.000	35
90	54	54	30	24	354	0.000	35
100	54	54	30	24	353	0.000	35
110	54	54	30	24	352	0.000	35
120	54	54	30	24	351	0.000	35
130	54	54	30	24	350	0.000	35
140	54	54	30	24	349	0.000	35
150	54	54	30	24	348	0.000	35
160	54	54	30	24	347	0.000	35
170	54	54	30	24	346	0.000	35
180	54	54	30	24	345	0.000	35
190	54	54	30	24	344	0.000	35
200	54	54	30	24	343	0.000	35
210	54	54	30	24	342	0.000	35
220	54	54	30	24	341	0.000	35
230	54	54	30	24	340	0.000	35
240	54	54	30	24	339	0.000	35
250	54	54	30	24	338	0.000	35
260	54	54	30	24	337	0.000	35
270	54	54	30	24	336	0.000	35
280	54	54	30	24	335	0.000	35
290	54	54	30	24	334	0.000	35
300	54	54	30	24	333	0.000	35
310	54	54	30	24	332	0.000	35
320	54	54	30	24	331	0.000	35
330	54	54	30	24	330	0.000	35
340	54	54	30	24	329	0.000	35
350	54	54	30	24	328	0.000	35
360	54	54	30	24	327	0.000	35
370	54	54	30	24	326	0.000	35
380	54	54	30	24	325	0.000	35
390	54	54	30	24	324	0.000	35
400	54	54	30	24	323	0.000	35
410	54	54	30	24	322	0.000	35
420	54	54	30	24	321	0.000	35
430	54	54	30	24	320	0.000	35
440	54	54	30	24	319	0.000	35
450	54	54	30	24	318	0.000	35
460	54	54	30	24	317	0.000	35
470	54	54	30	24	316	0.000	35
480	54	54	30	24	315	0.000	35
490	54	54	30	24	314	0.000	35

DEPTH 3.7  
 TEMP. -1.52  
 SALIN 491.3

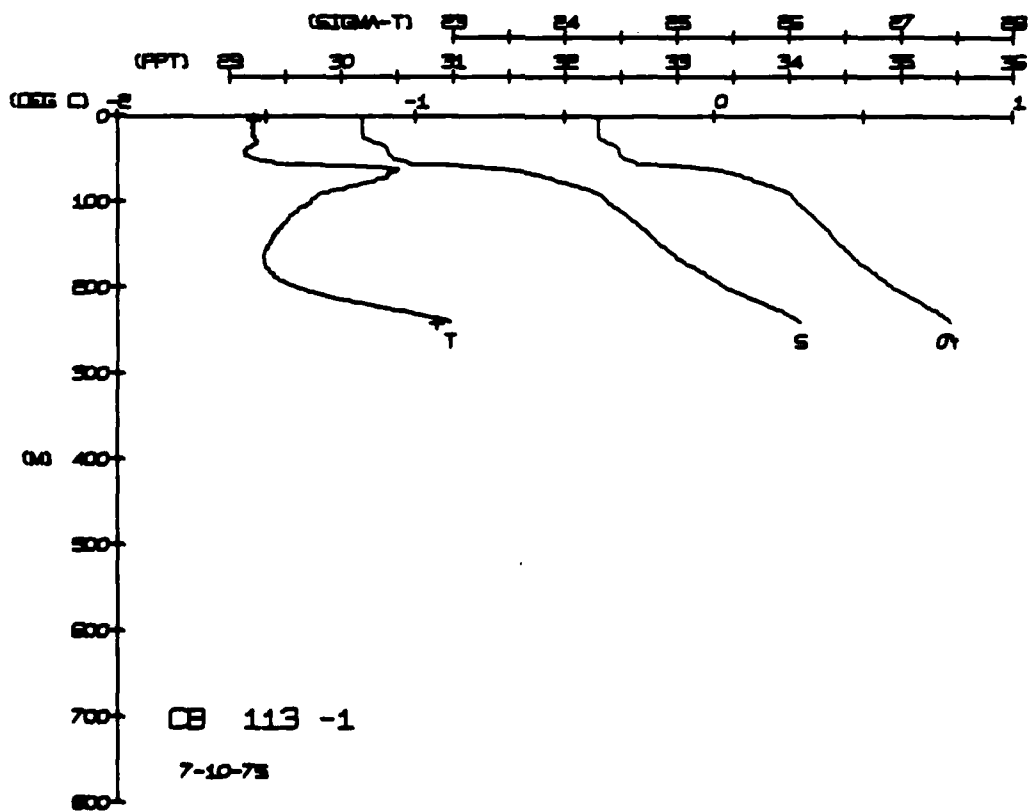
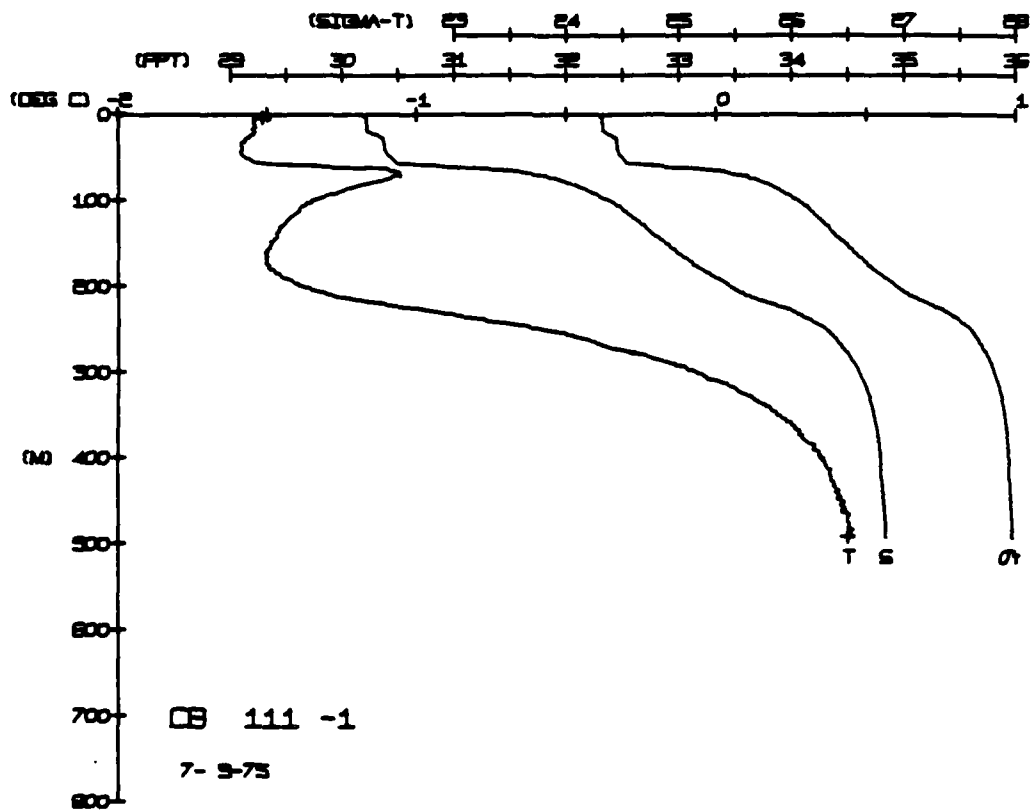
ROT NUM = 1  
 ROT NUM = 2

CARIBOU STATION 111(1) CTD 10/JUL/1975 1844 GMT CODE = 1  
 LAT = 75.631N LNC = 145.7094W LTER = 0 UGR = 0  
 AIR TEMP = 0.4 MAHUM = 1009.6 WIND = 248.5 SPEED = 56.0

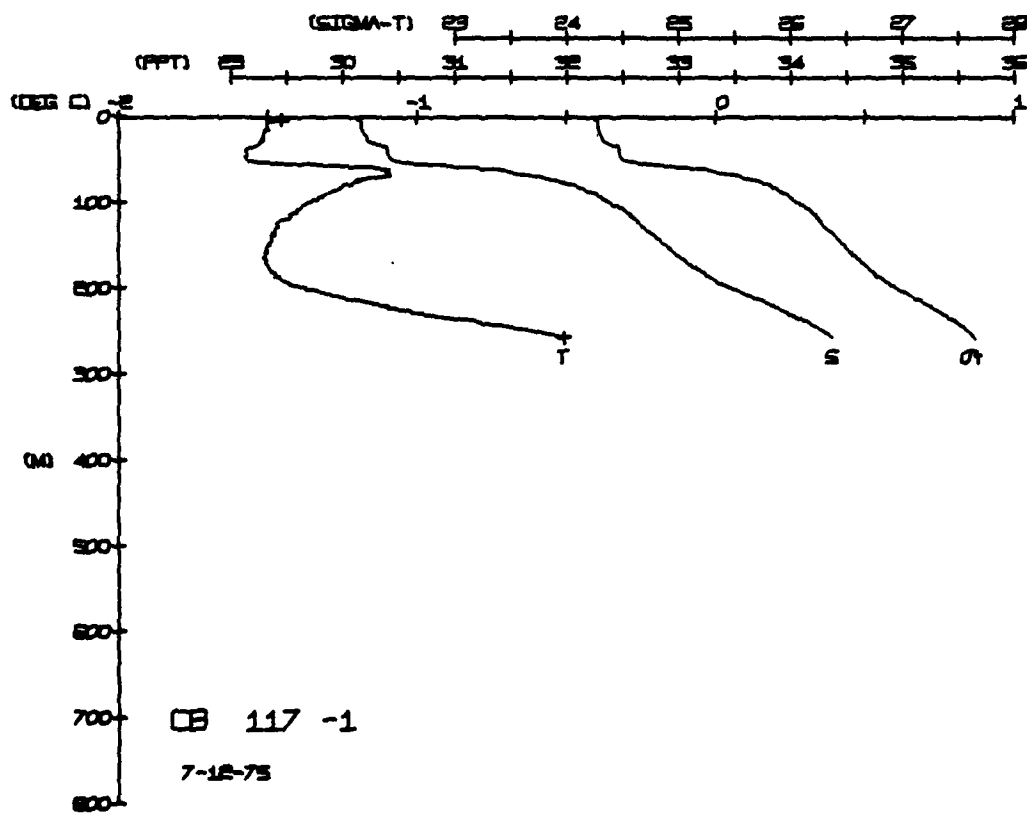
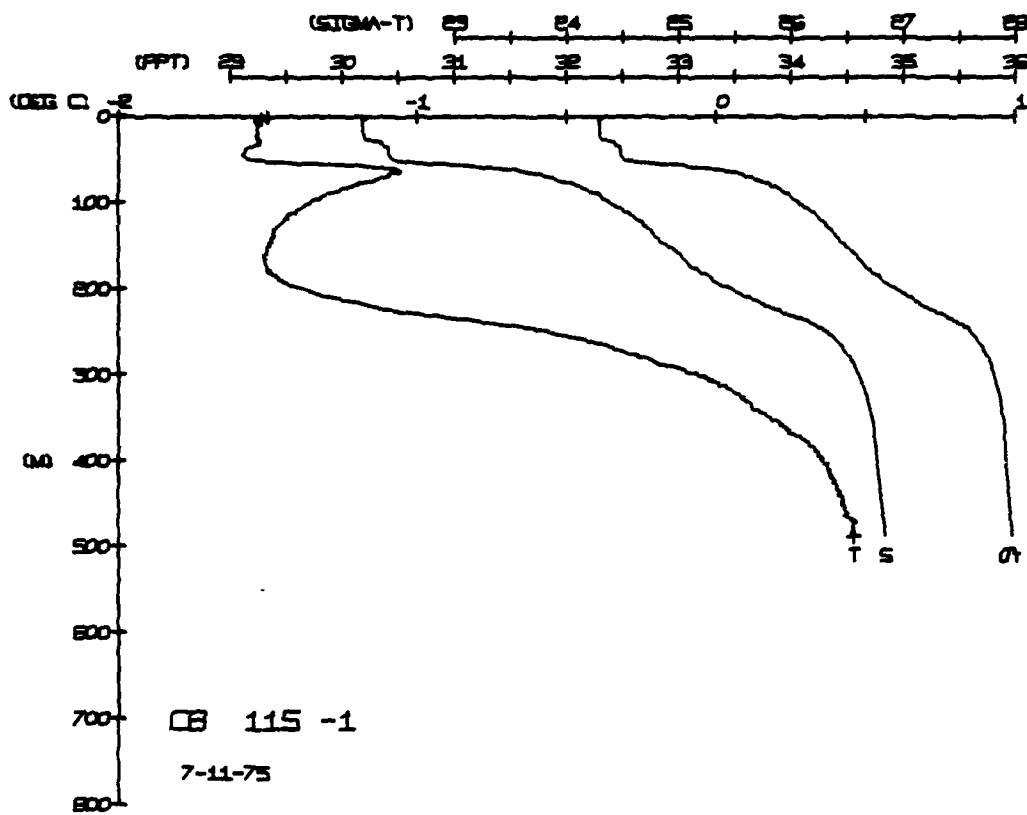
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
0	54	54	30	24	364	0.000	33
10	54	54	30	24	363	0.000	35
20	54	54	30	24	362	0.000	35
30	54	54	30	24	361	0.000	35
40	54	54	30	24	360	0.000	35
50	54	54	30	24	359	0.000	35
60	54	54	30	24	358	0.000	35
70	54	54	30	24	357	0.000	35
80	54	54	30	24	356	0.000	35
90	54	54	30	24	355	0.000	35
100	54	54	30	24	354	0.000	35
110	54	54	30	24	353	0.000	35
120	54	54	30	24	352	0.000	35
130	54	54	30	24	351	0.000	35
140	54	54	30	24	350	0.000	35
150	54	54	30	24	349	0.000	35
160	54	54	30	24	348	0.000	35
170	54	54	30	24	347	0.000	35
180	54	54	30	24	346	0.000	35
190	54	54	30	24	345	0.000	35
200	54	54	30	24	344	0.000	35
210	54	54	30	24	343	0.000	35
220	54	54	30	24	342	0.000	35
230	54	54	30	24	341	0.000	35
240	54	54	30	24	340	0.000	35
250	54	54	30	24	339	0.000	35
260	54	54	30	24	338	0.000	35
270	54	54	30	24	337	0.000	35
280	54	54	30	24	336	0.000	35
290	54	54	30	24	335	0.000	35
300	54	54	30	24	334	0.000	35
310	54	54	30	24	333	0.000	35
320	54	54	30	24	332	0.000	35
330	54	54	30	24	331	0.000	35
340	54	54	30	24	330	0.000	35
350	54	54	30	24	329	0.000	35
360	54	54	30	24	328	0.000	35
370	54	54	30	24	327	0.000	35
380	54	54	30	24	326	0.000	35
390	54	54	30	24	325	0.000	35
400	54	54	30	24	324	0.000	35
410	54	54	30	24	323	0.000	35
420	54	54	30	24	322	0.000	35
430	54	54	30	24	321	0.000	35
440	54	54	30	24	320	0.000	35
450	54	54	30	24	319	0.000	35
460	54	54	30	24	318	0.000	35
470	54	54	30	24	317	0.000	35
480	54	54	30	24	316	0.000	35
490	54	54	30	24	315	0.000	35

DEPTH 4.1  
 TEMP. -1.54  
 SALIN 491.1

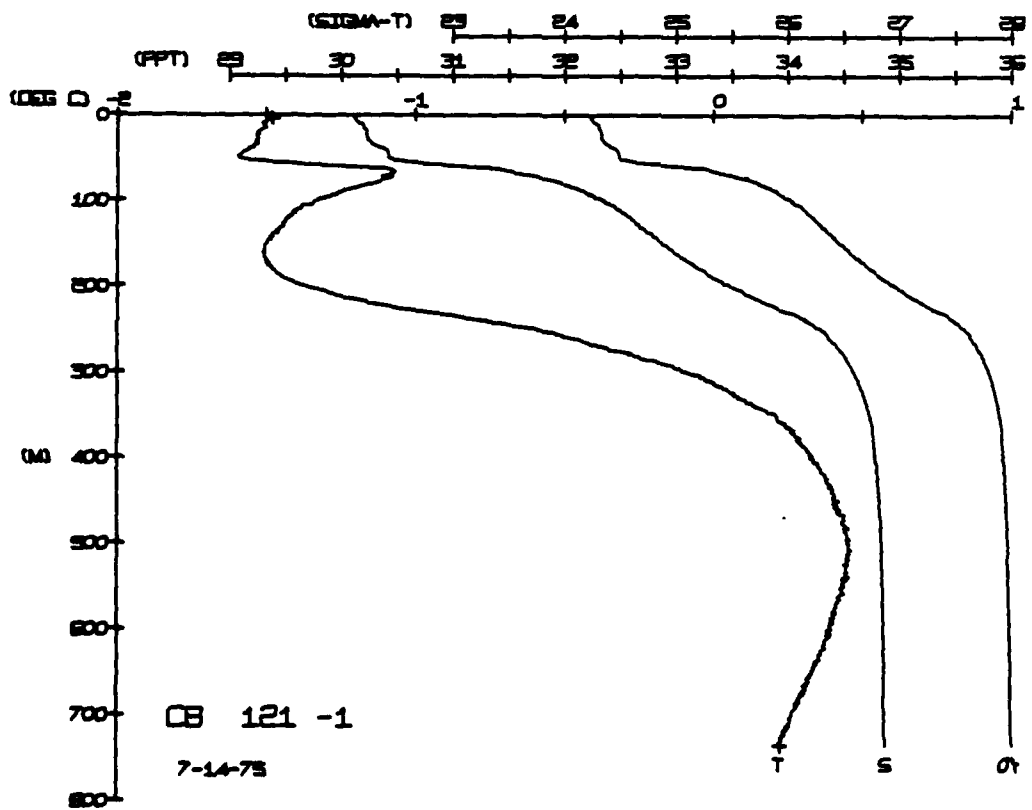
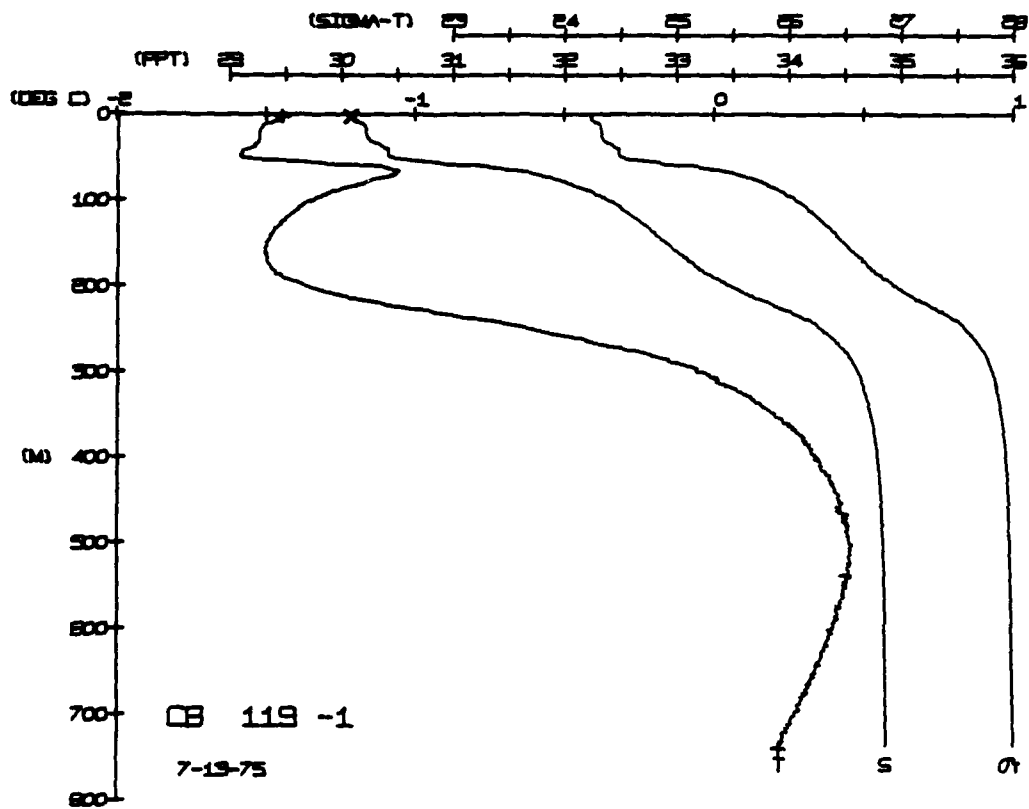
ROT NUM = 1  
 ROT NUM = 2





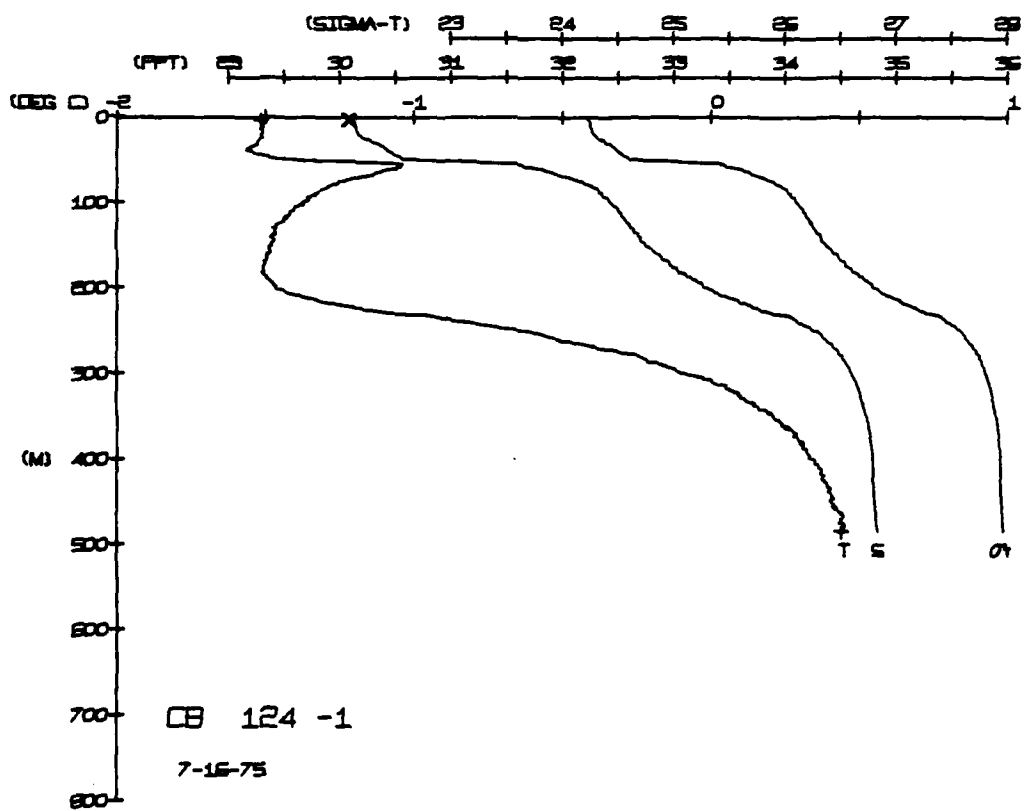
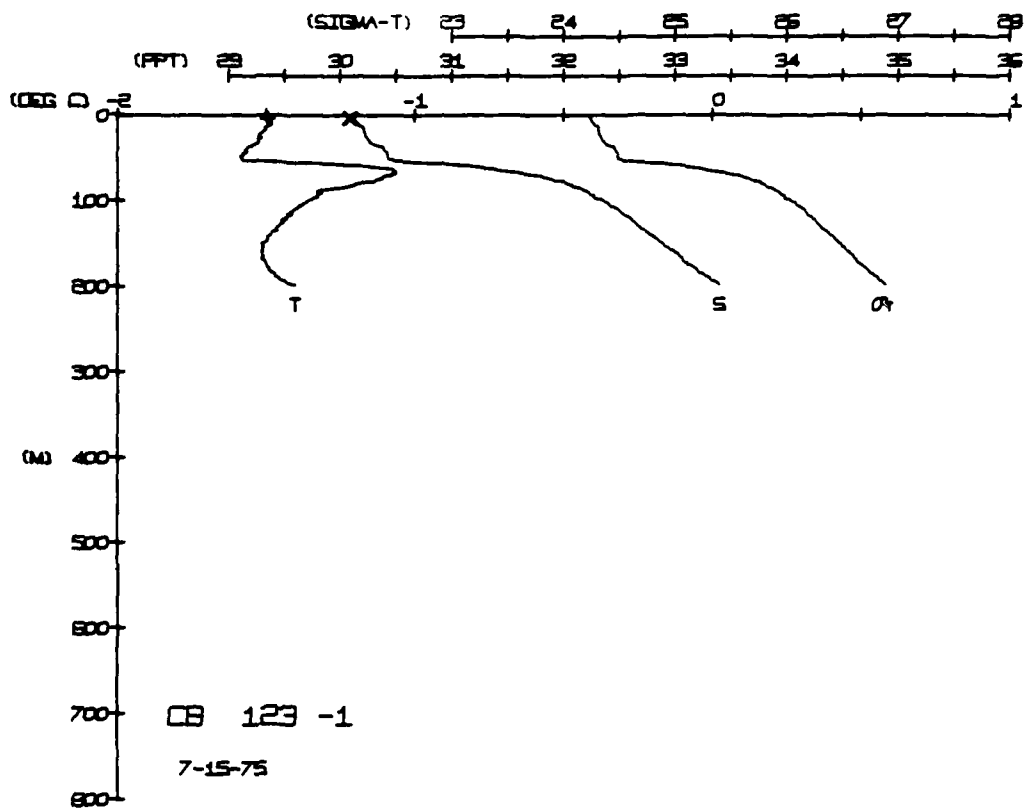












CARIBUW STATION 125(1) CTD 20/JUL/1975 1830 GMT CODE = 1  
LAT = 75.3361N LMG = 145.3184W LTER = 2 LGER = 3  
AIR TEMP = 0.5 BARUM = 1011.4 WIND = 306.8 SPEED = 60.2

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	1.50	1.50	29.96	24.11	381.4	0.000	1435.222
3	1.50	1.50	29.96	24.11	381.4	0.000	1435.222
15	1.49	1.49	30.01	24.12	379.9	0.019	1435.222
25	1.49	1.49	30.01	24.13	377.1	0.038	1435.222
35	1.49	1.49	30.01	24.15	377.1	0.057	1435.222
45	1.49	1.49	30.01	24.16	369.2	0.076	1435.222
55	1.49	1.49	30.01	24.16	367.7	0.095	1435.222
65	1.49	1.49	30.01	24.16	367.7	0.113	1435.222
75	1.49	1.49	30.01	24.16	367.7	0.130	1435.222
85	1.49	1.49	30.01	24.16	367.7	0.148	1435.222
95	1.49	1.49	30.01	24.16	367.7	0.165	1435.222
105	1.49	1.49	30.01	24.16	367.7	0.183	1435.222
115	1.49	1.49	30.01	24.16	367.7	0.200	1435.222
125	1.49	1.49	30.01	24.16	367.7	0.215	1435.222
135	1.49	1.49	30.01	24.16	367.7	0.229	1435.222
145	1.49	1.49	30.01	24.16	367.7	0.245	1435.222
155	1.49	1.49	30.01	24.16	367.7	0.260	1435.222
165	1.49	1.49	30.01	24.16	367.7	0.275	1435.222
175	1.49	1.49	30.01	24.16	367.7	0.290	1435.222
185	1.49	1.49	30.01	24.16	367.7	0.305	1435.222
195	1.49	1.49	30.01	24.16	367.7	0.320	1435.222
205	1.49	1.49	30.01	24.16	367.7	0.335	1435.222
215	1.49	1.49	30.01	24.16	367.7	0.350	1435.222
225	1.49	1.49	30.01	24.16	367.7	0.365	1435.222
235	1.49	1.49	30.01	24.16	367.7	0.380	1435.222
245	1.49	1.49	30.01	24.16	367.7	0.395	1435.222
255	1.49	1.49	30.01	24.16	367.7	0.410	1435.222
265	1.49	1.49	30.01	24.16	367.7	0.425	1435.222
275	1.49	1.49	30.01	24.16	367.7	0.440	1435.222
285	1.49	1.49	30.01	24.16	367.7	0.455	1435.222
295	1.49	1.49	30.01	24.16	367.7	0.470	1435.222
305	1.49	1.49	30.01	24.16	367.7	0.485	1435.222
315	1.49	1.49	30.01	24.16	367.7	0.500	1435.222

DEPTH 0 3 15 25 35 45 55 65 75 85 95 105 115 125 135 145 155 165 175 185 195 205 215 225 235 245 255 265 275 285 295 305

HOT NUM = 1  
HOT NUM = 2

TEMP. -1.50  
-0.93

SALIN 29.95

CARIBUW STATION 126(1) CTD 21/JUL/1975 1807 GMT CODE = 1  
LAT = 75.2192N LMG = 145.3805W LTER = 0 LGER = 0  
AIR TEMP = -0.8 BARUM = 1008.4 WIND = 328.9 SPEED = 63.1

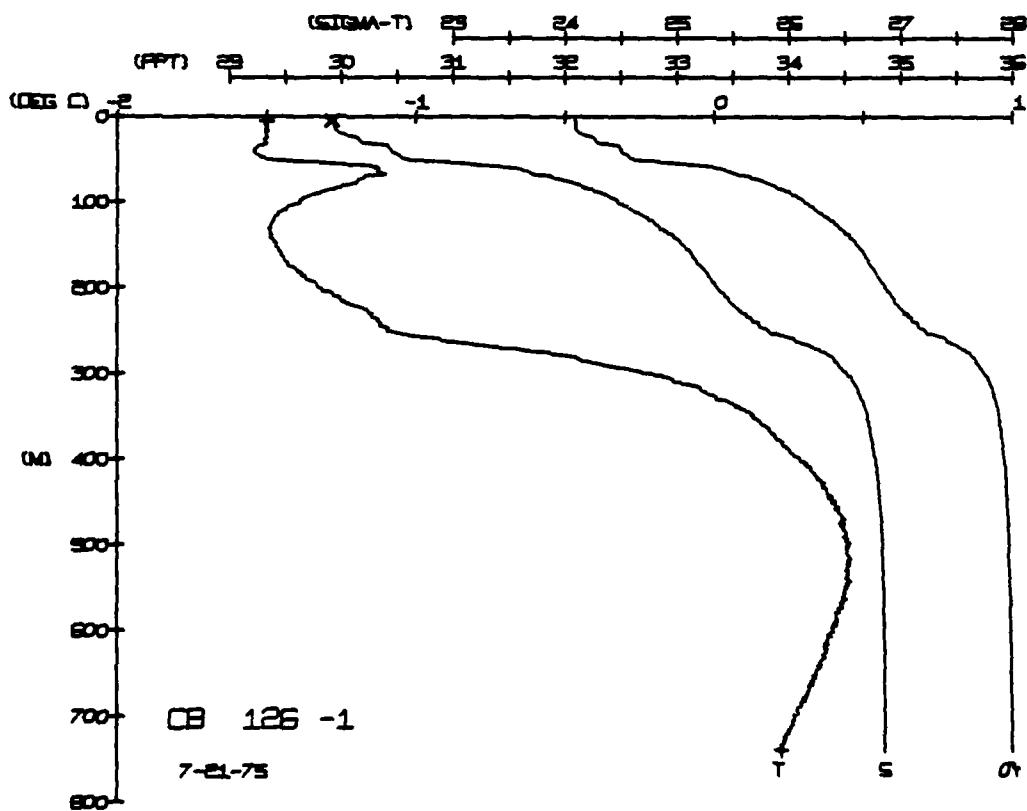
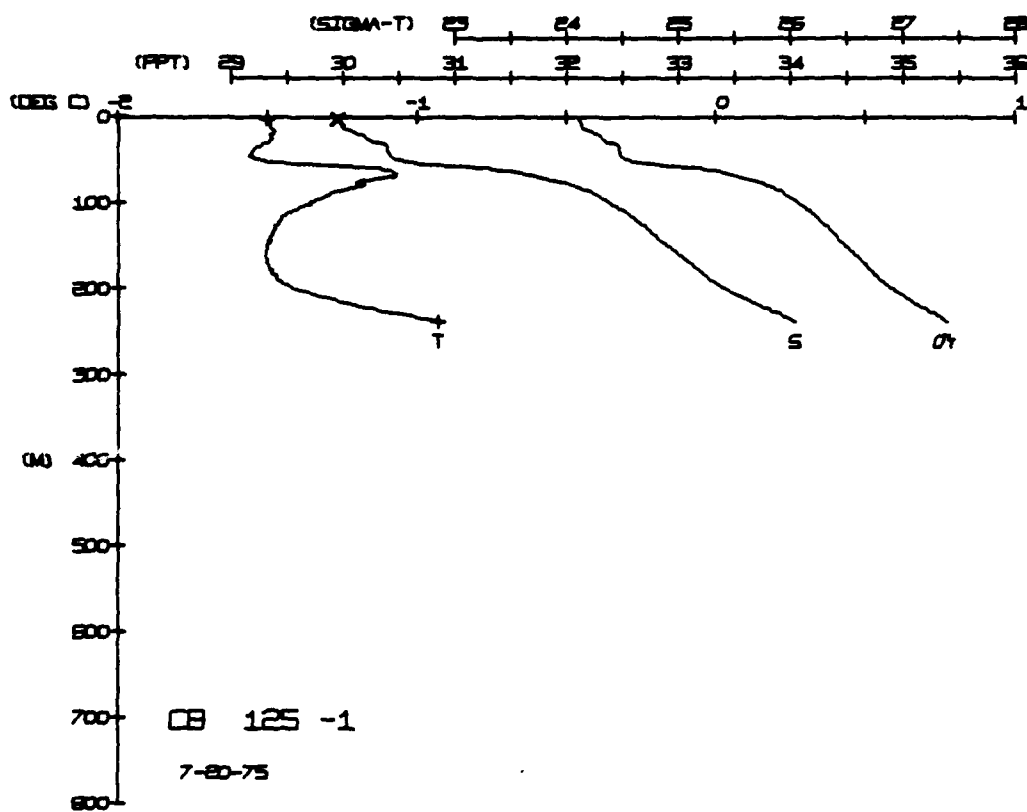
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
3	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
15	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
25	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
35	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
45	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
55	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
65	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
75	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
85	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
95	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
105	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
115	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
125	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
135	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
145	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
155	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
165	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
175	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
185	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
195	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
205	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
215	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
225	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
235	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
245	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
255	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
265	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
275	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
285	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
295	0.00	0.00	29.93	24.09	383.3	0.000	1435.222
305	0.00	0.00	29.93	24.09	383.3	0.000	1435.222

DEPTH 0 3 15 25 35 45 55 65 75 85 95 105 115 125 135 145 155 165 175 185 195 205 215 225 235 245 255 265 275 285 295 305

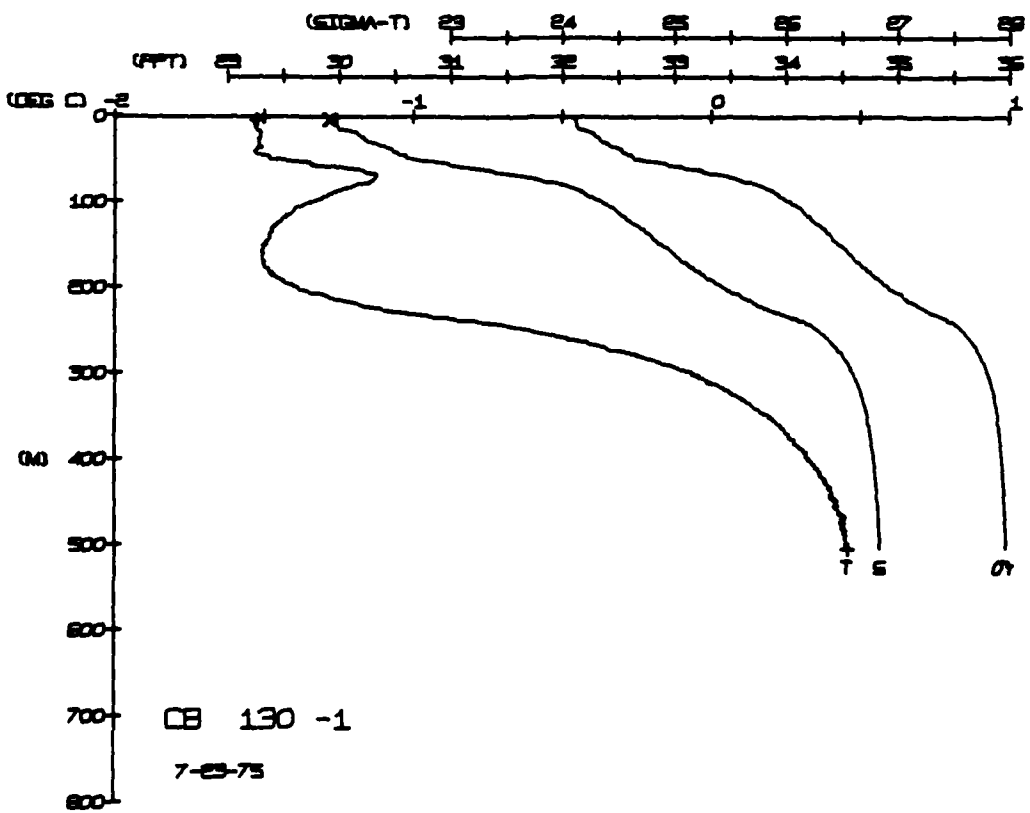
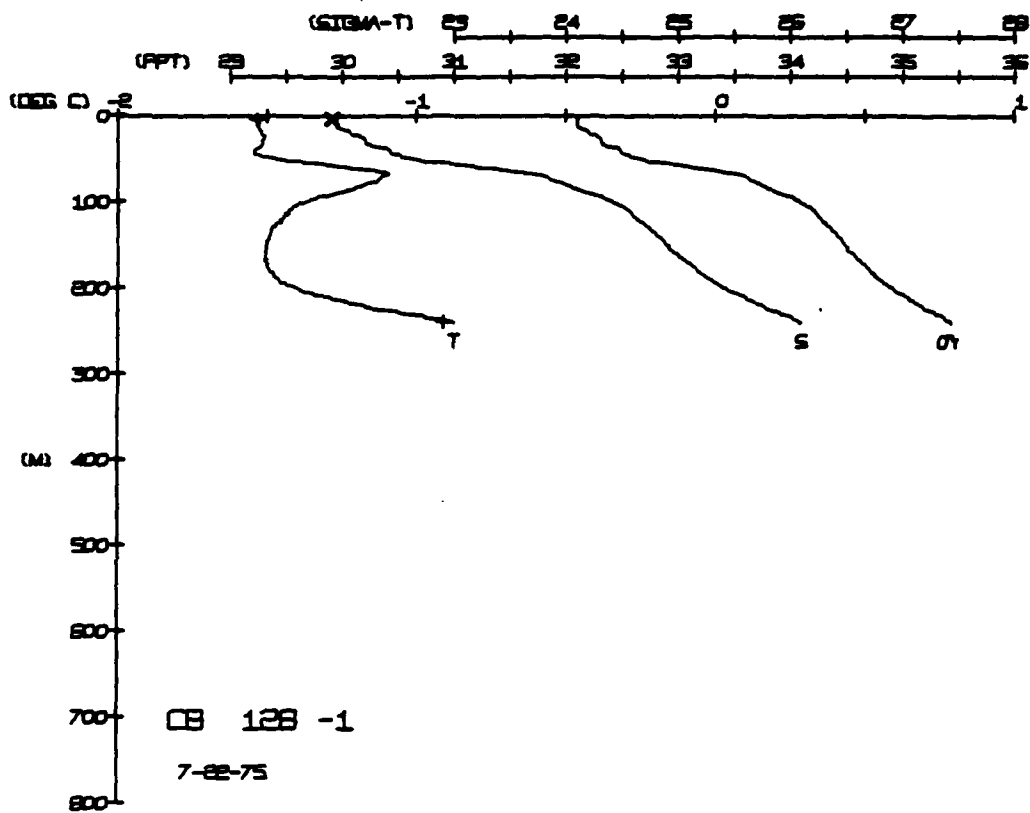
HOT NUM = 1  
HOT NUM = 2

TEMP. -1.50  
-0.23

SALIN 29.91





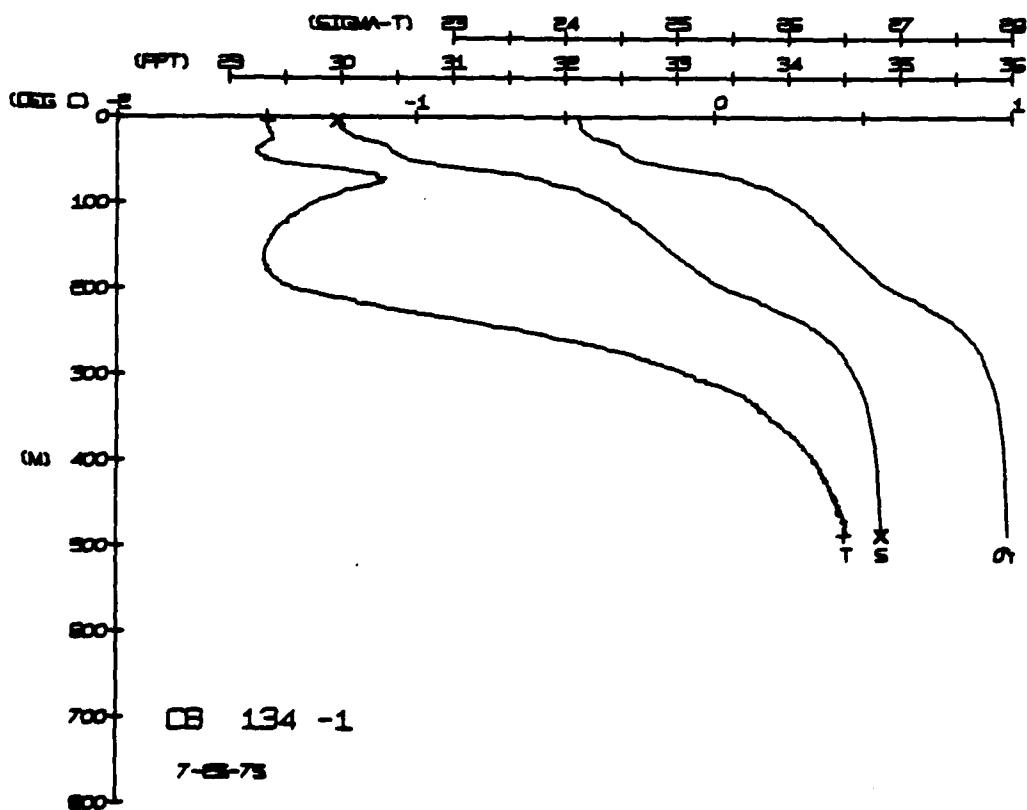
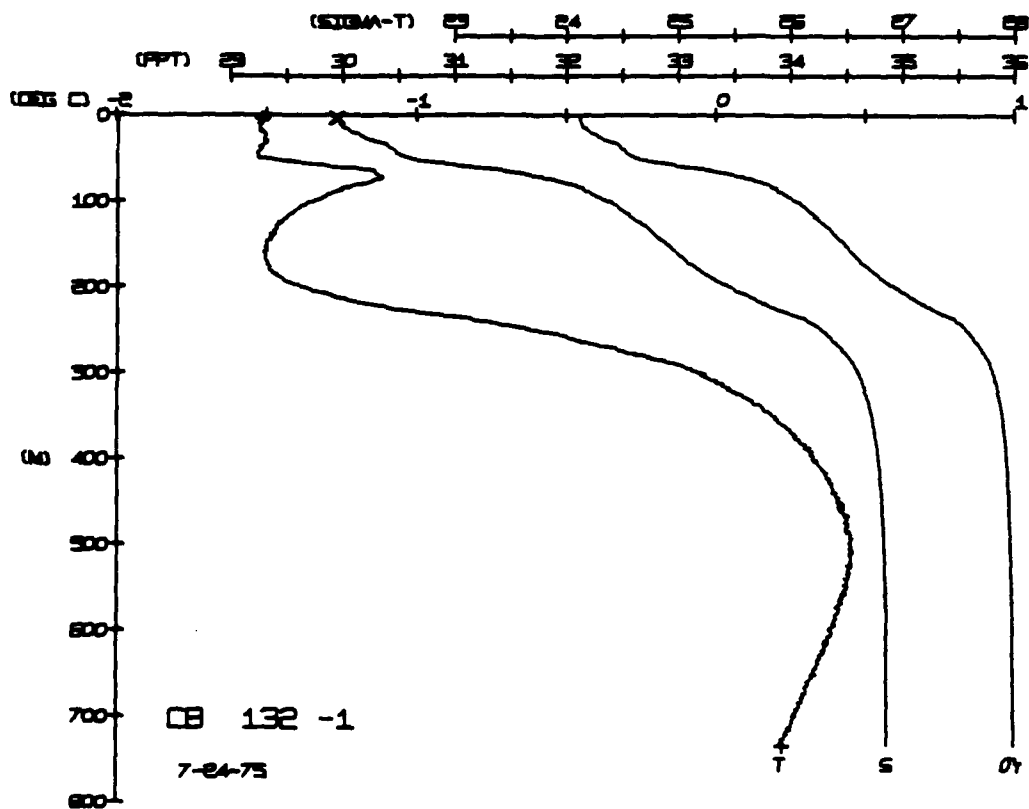


LAMARBUO STATION 132(1) CYD 24/JUL/1975 1916 GMT CODE = 1  
 WAT = 75.1006N LNG = 145.6121W LTH = 1 UCRN = 2  
 AIR TMRP = -1.6 BAROM = 1014.0 WIND = 331.4 SPEED = 28.7  
 WPTH TMRP TMRP SALIN SIG T SPVUL DYNIT SOUND

CARIBOU STATION 134(1) CTD 25/JUN/1975 1800 GHT CODE = 1  
LAT = 75.1050N LNG = 145.0325W LTER = 1 LSKN = 2  
AIR TEMP = -1.0 BAHUM = 1017.6 WIND = 35.3 SPEED = 37.9  
DEPTH TEMP PTMP SALIN SIG T SPVOL DYNHT SOUND

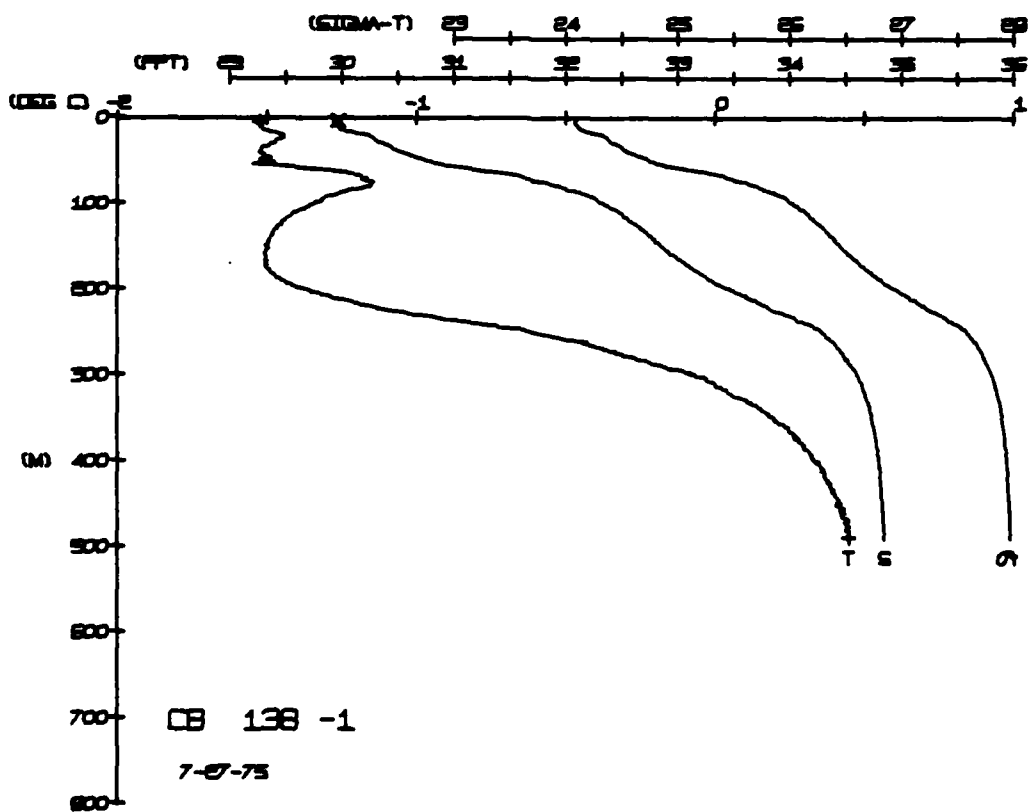
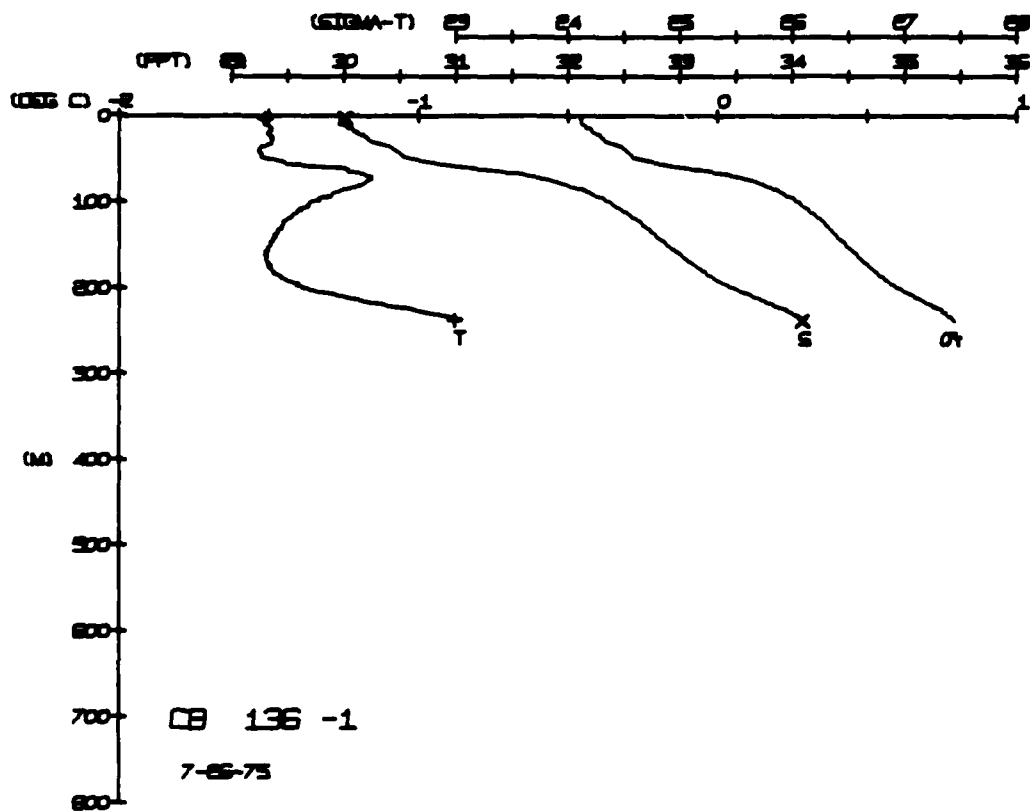
[illegible][illegible]

	DEPTH	TEMP.	SALIN		DEPTH	TEMP.	SALIN
HOT NUM = 1	3.4	-1.52	29.94	HOT NUM = 1	3.0	-1.50	29.96
CUT NUM = 2	733.6	0.23		CUT NUM = 2	400.5	0.44	34.84

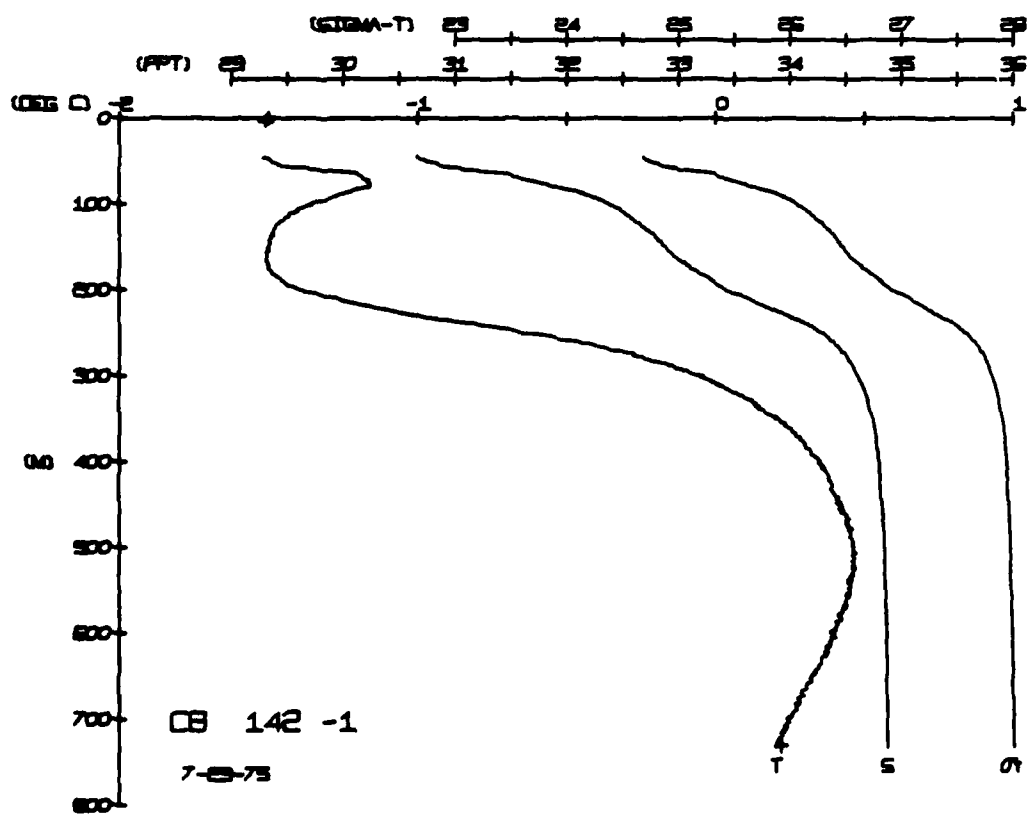
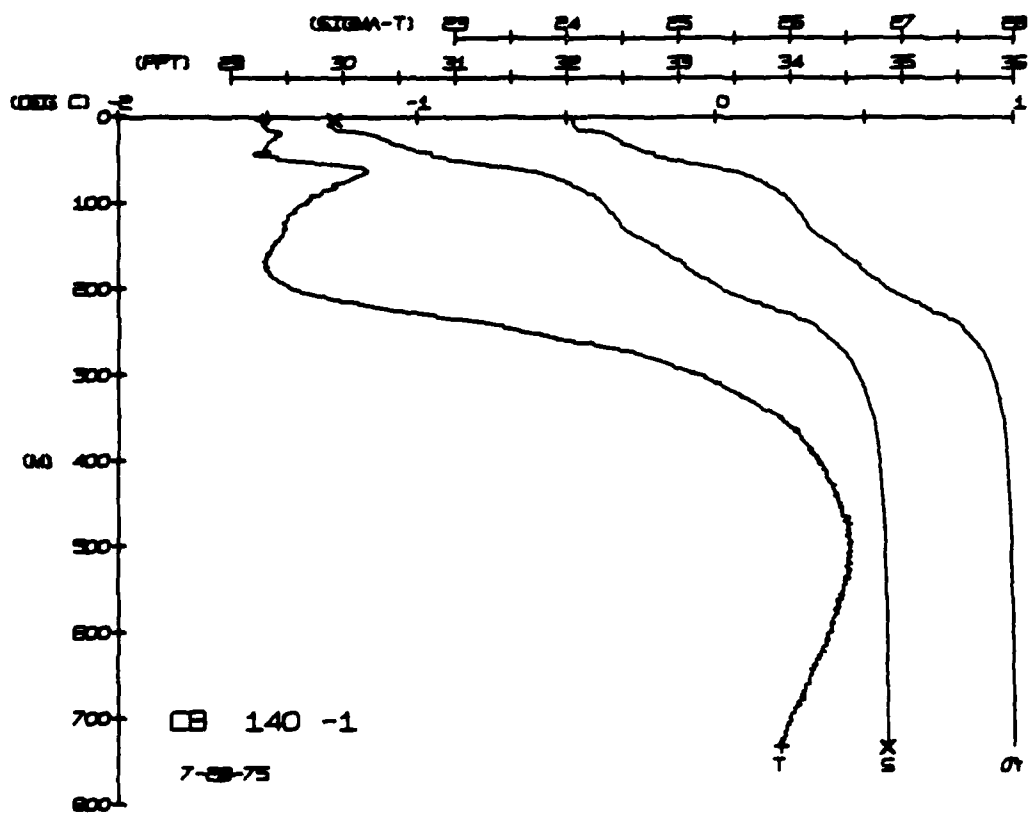




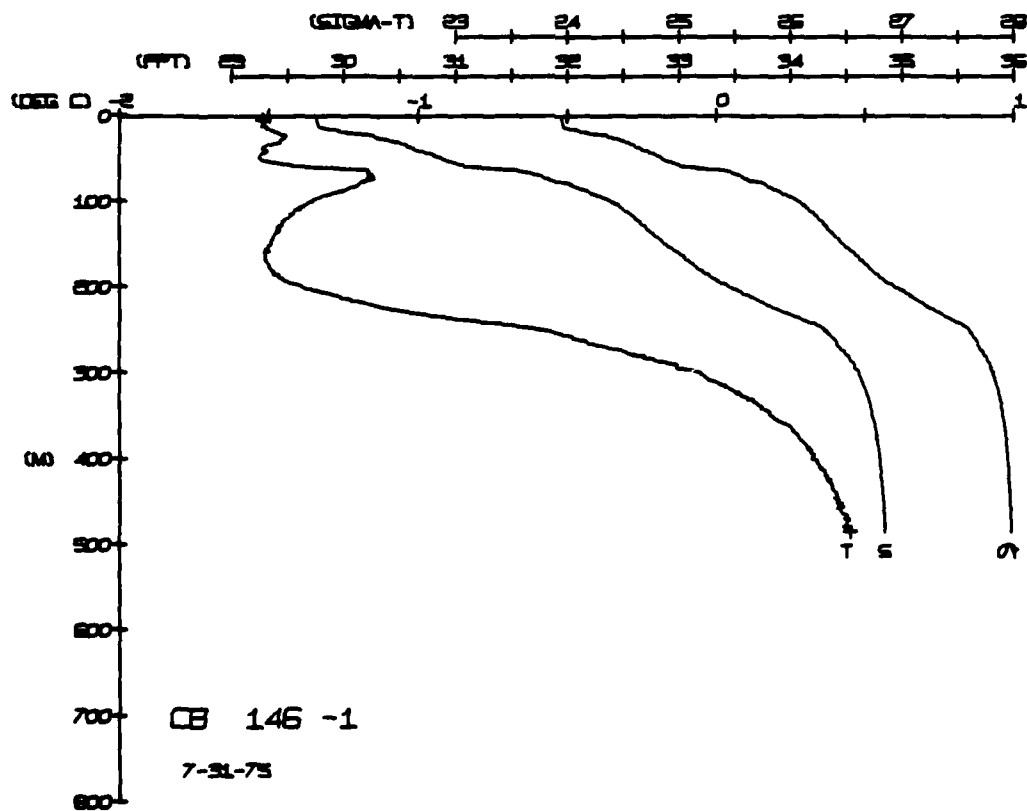
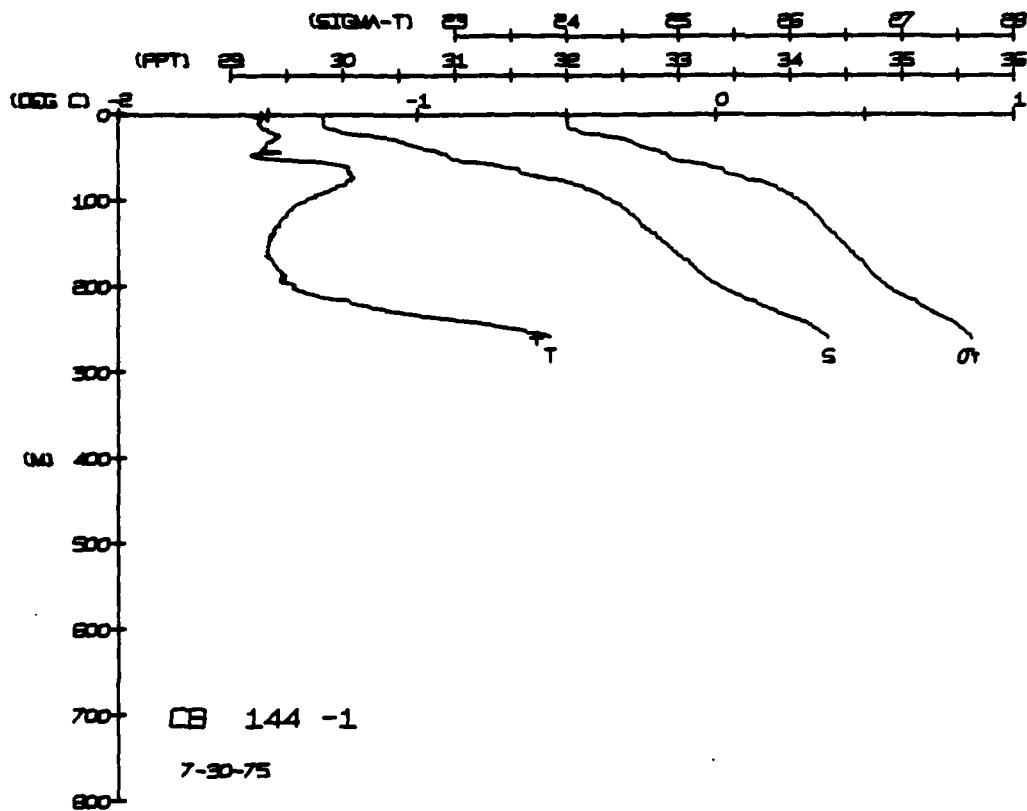




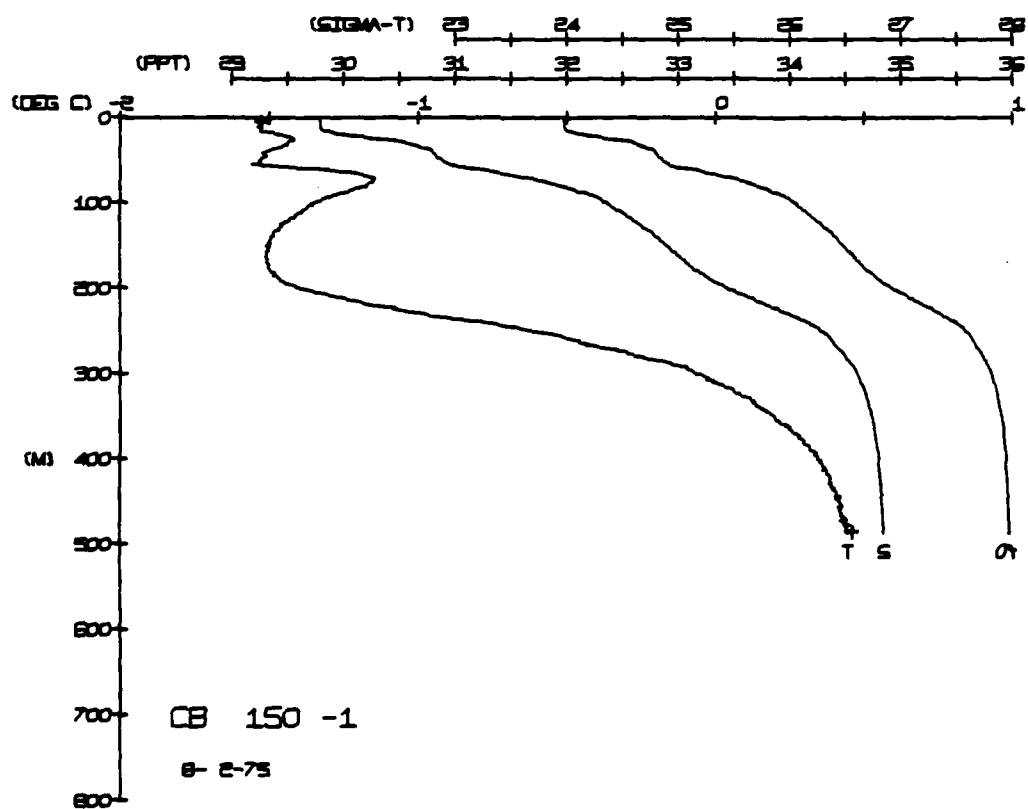
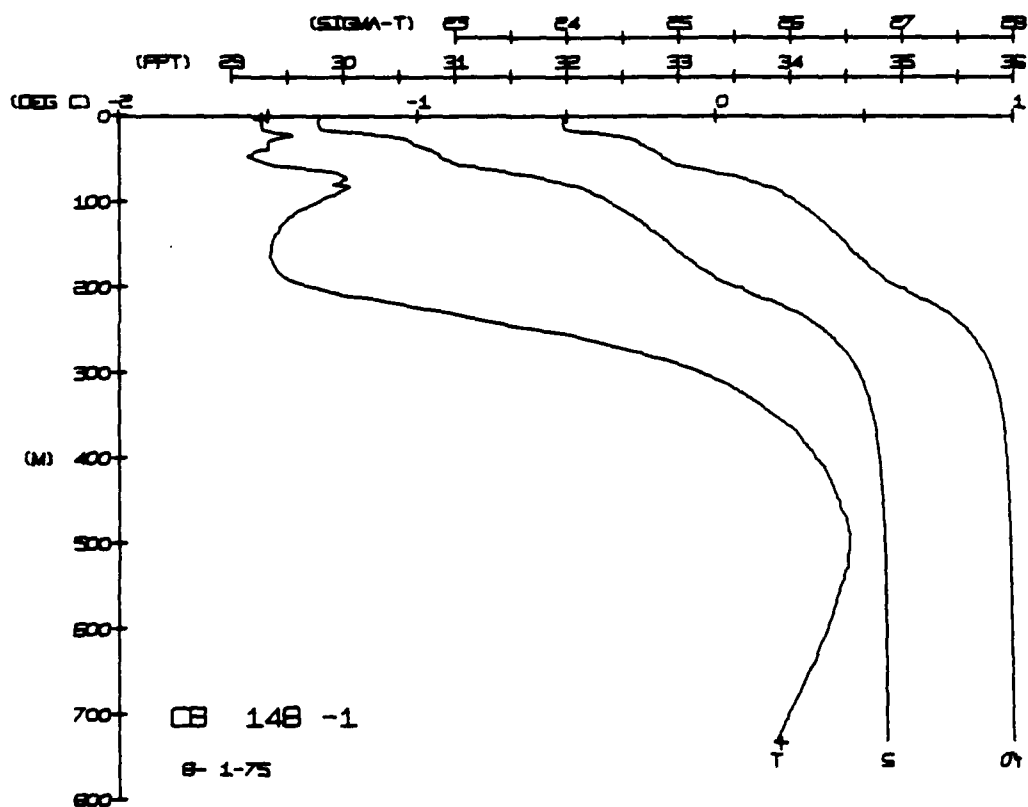












CARIBOU STATION 152(1) CTD 3/AUG/1975 1903 GMT CODE = 1  
LAT = 74.5559N LMG = 144.4630W LTER = 2 LGER = 33.8  
AIR TEMP = -2.2 BARUM = 1026.5 WIND = 280.3 SPEED = 35.8

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.0	53.2	53.2	30.88	24.86	310.9	0.000	1437.5
5.0	53.2	53.2	30.91	24.89	302.7	0.000	1437.5
10.0	53.2	53.2	30.97	24.93	292.7	0.000	1437.5
15.0	53.2	53.2	31.10	24.94	275.5	0.000	1437.5
20.0	53.2	53.2	31.13	24.95	258.5	0.000	1437.5
25.0	53.2	53.2	31.22	24.97	235.9	0.000	1437.5
30.0	53.2	53.2	31.31	24.99	207.7	0.000	1437.5
35.0	53.2	53.2	31.40	25.01	178.0	0.000	1437.5
40.0	53.2	53.2	31.49	25.03	148.0	0.000	1437.5
45.0	53.2	53.2	31.58	25.05	118.0	0.000	1437.5
50.0	53.2	53.2	31.67	25.07	88.0	0.000	1437.5
55.0	53.2	53.2	31.76	25.09	58.0	0.000	1437.5
60.0	53.2	53.2	31.85	25.11	28.0	0.000	1437.5
65.0	53.2	53.2	31.94	25.13	0.0	0.000	1437.5
70.0	53.2	53.2	32.03	25.15	0.0	0.000	1437.5
75.0	53.2	53.2	32.12	25.17	0.0	0.000	1437.5
80.0	53.2	53.2	32.21	25.19	0.0	0.000	1437.5
85.0	53.2	53.2	32.30	25.21	0.0	0.000	1437.5
90.0	53.2	53.2	32.39	25.23	0.0	0.000	1437.5
95.0	53.2	53.2	32.48	25.25	0.0	0.000	1437.5
100.0	53.2	53.2	32.57	25.27	0.0	0.000	1437.5
105.0	53.2	53.2	32.66	25.29	0.0	0.000	1437.5
110.0	53.2	53.2	32.75	25.31	0.0	0.000	1437.5
115.0	53.2	53.2	32.84	25.33	0.0	0.000	1437.5
120.0	53.2	53.2	32.93	25.35	0.0	0.000	1437.5
125.0	53.2	53.2	33.02	25.37	0.0	0.000	1437.5
130.0	53.2	53.2	33.11	25.39	0.0	0.000	1437.5
135.0	53.2	53.2	33.20	25.41	0.0	0.000	1437.5
140.0	53.2	53.2	33.29	25.43	0.0	0.000	1437.5
145.0	53.2	53.2	33.38	25.45	0.0	0.000	1437.5
150.0	53.2	53.2	33.47	25.47	0.0	0.000	1437.5
155.0	53.2	53.2	33.56	25.49	0.0	0.000	1437.5
160.0	53.2	53.2	33.65	25.51	0.0	0.000	1437.5
165.0	53.2	53.2	33.74	25.53	0.0	0.000	1437.5
170.0	53.2	53.2	33.83	25.55	0.0	0.000	1437.5
175.0	53.2	53.2	33.92	25.57	0.0	0.000	1437.5
180.0	53.2	53.2	34.01	25.59	0.0	0.000	1437.5
185.0	53.2	53.2	34.10	25.61	0.0	0.000	1437.5
190.0	53.2	53.2	34.19	25.63	0.0	0.000	1437.5
195.0	53.2	53.2	34.28	25.65	0.0	0.000	1437.5
200.0	53.2	53.2	34.37	25.67	0.0	0.000	1437.5
205.0	53.2	53.2	34.46	25.69	0.0	0.000	1437.5
210.0	53.2	53.2	34.55	25.71	0.0	0.000	1437.5
215.0	53.2	53.2	34.64	25.73	0.0	0.000	1437.5
220.0	53.2	53.2	34.73	25.75	0.0	0.000	1437.5
225.0	53.2	53.2	34.82	25.77	0.0	0.000	1437.5
230.0	53.2	53.2	34.91	25.79	0.0	0.000	1437.5

BUT NUM = 1  
HOT NUM = 2

DEPTH TEMP. SALIN

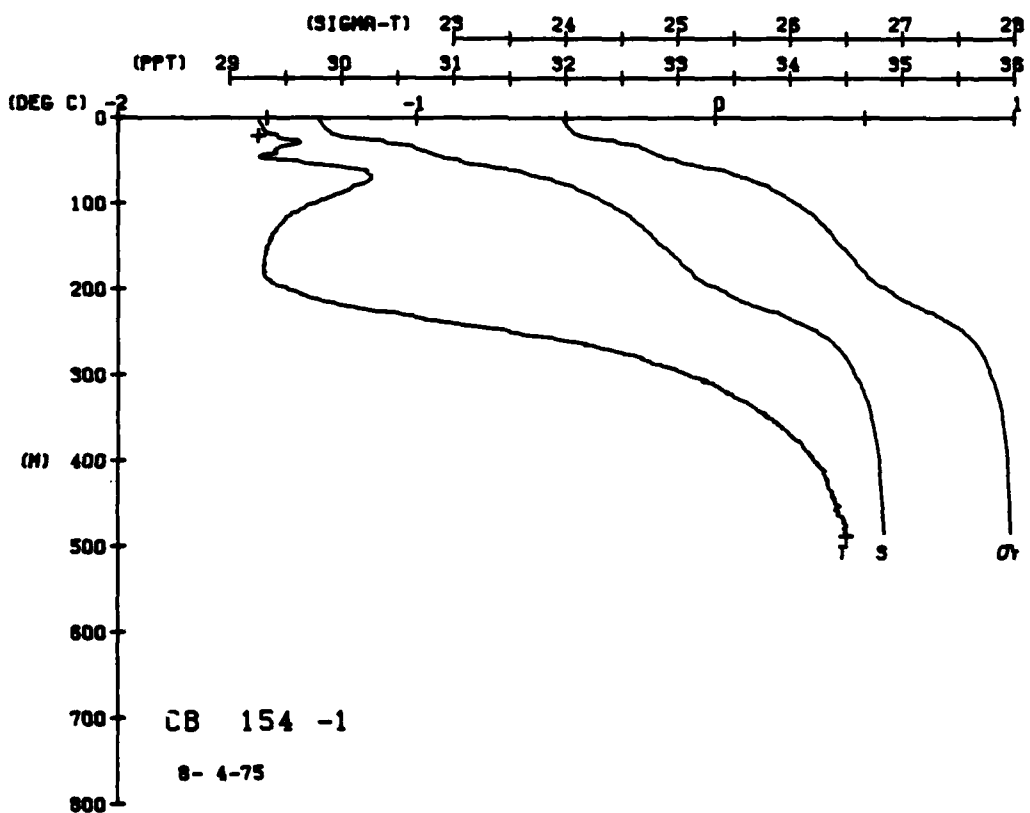
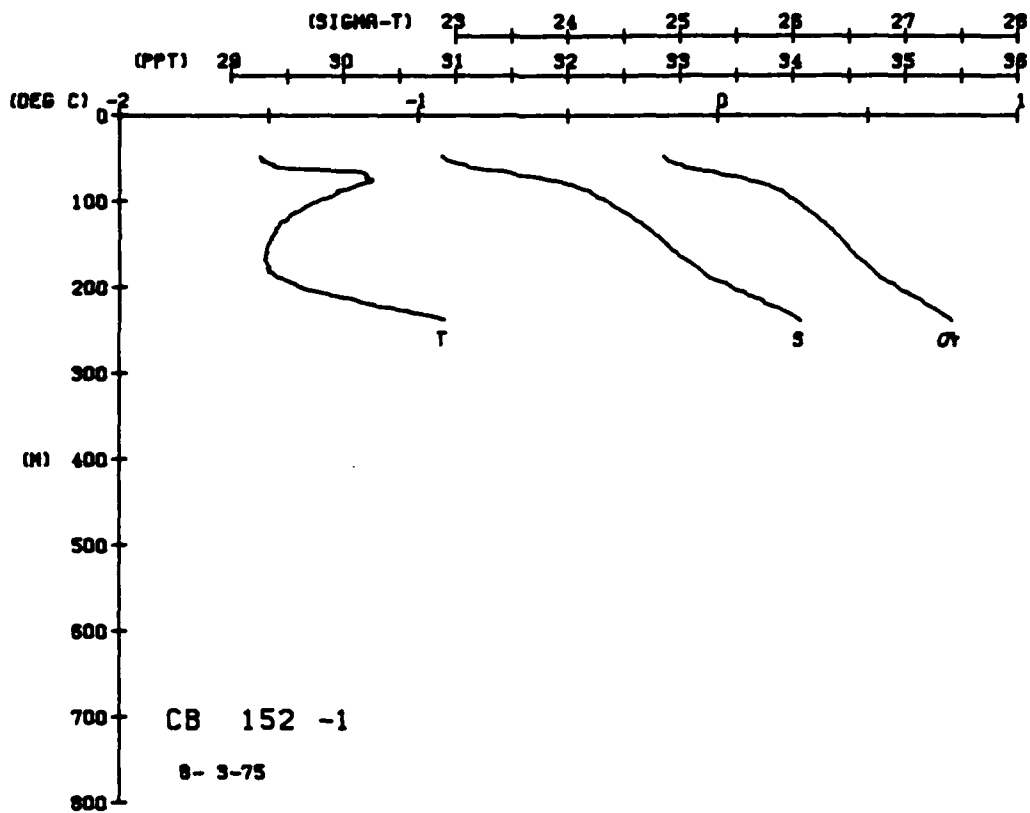
BUT NUM = 1  
HOT NUM = 2

DEPTH TEMP. SALIN

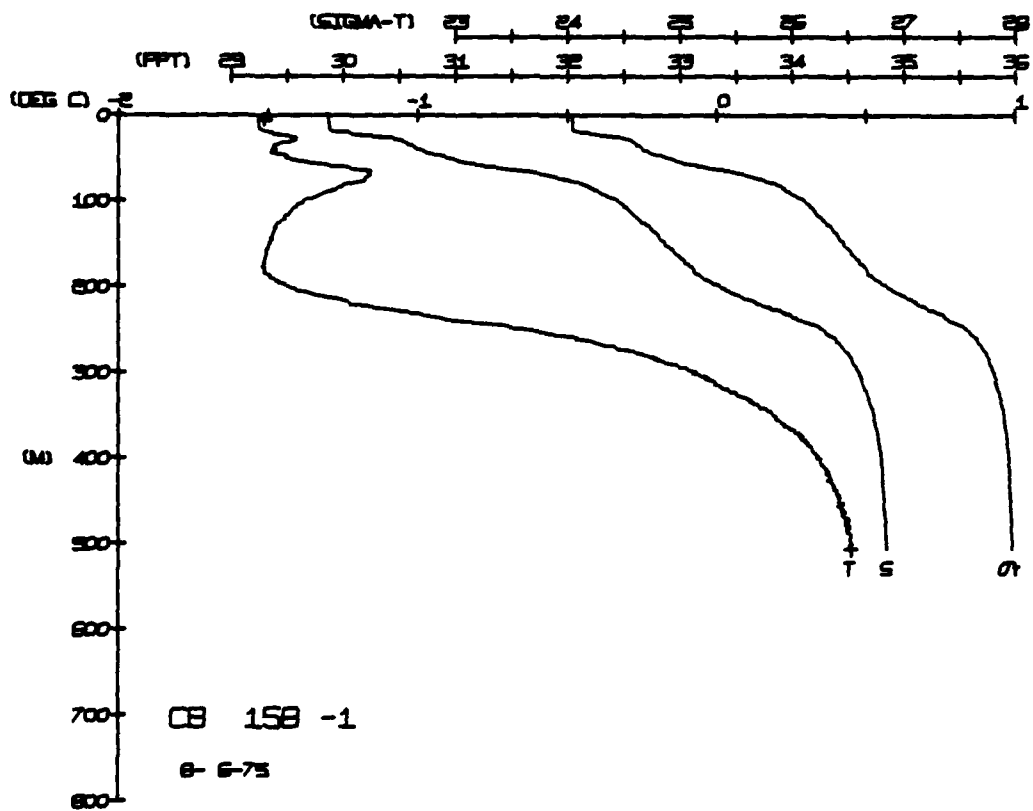
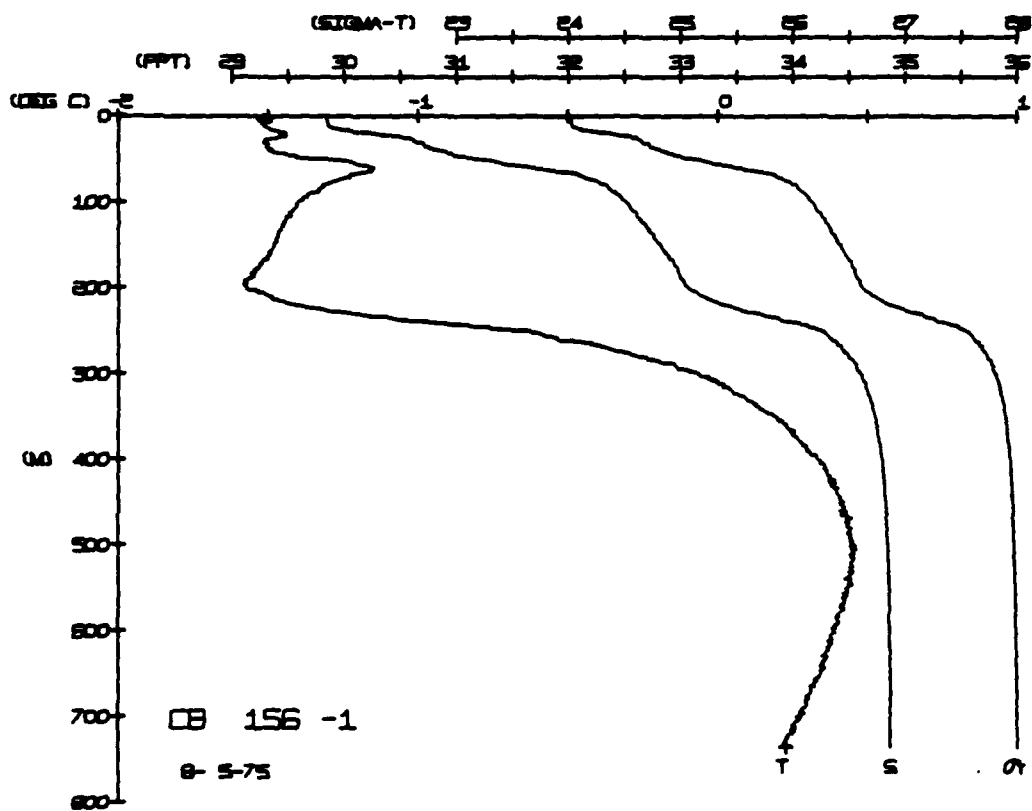
CARIBOU STATION 154(1) CTD 4/AUG/1975 1816 GMT CODE = 1  
LAT = 74.5637N LMG = 144.3287W LTER = 4 LGER = 7  
AIR TEMP = -0.4 BARUM = 1019.0 WIND = 199.2 SPEED = 59.1

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.0	53.2	53.2	29.80	23.98	393.6	0.000	1434.9
5.0	53.2	53.2	29.80	23.99	393.6	0.015	1434.9
10.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
15.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
20.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
25.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
30.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
35.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
40.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
45.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
50.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
55.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
60.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
65.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
70.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
75.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
80.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
85.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
90.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
95.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
100.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
105.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
110.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
115.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
120.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
125.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
130.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
135.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
140.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
145.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
150.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
155.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
160.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
165.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
170.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
175.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
180.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
185.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
190.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
195.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
200.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
205.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
210.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
215.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
220.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
225.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9
230.0	53.2	53.2	29.80	23.99	393.6	0.020	1434.9

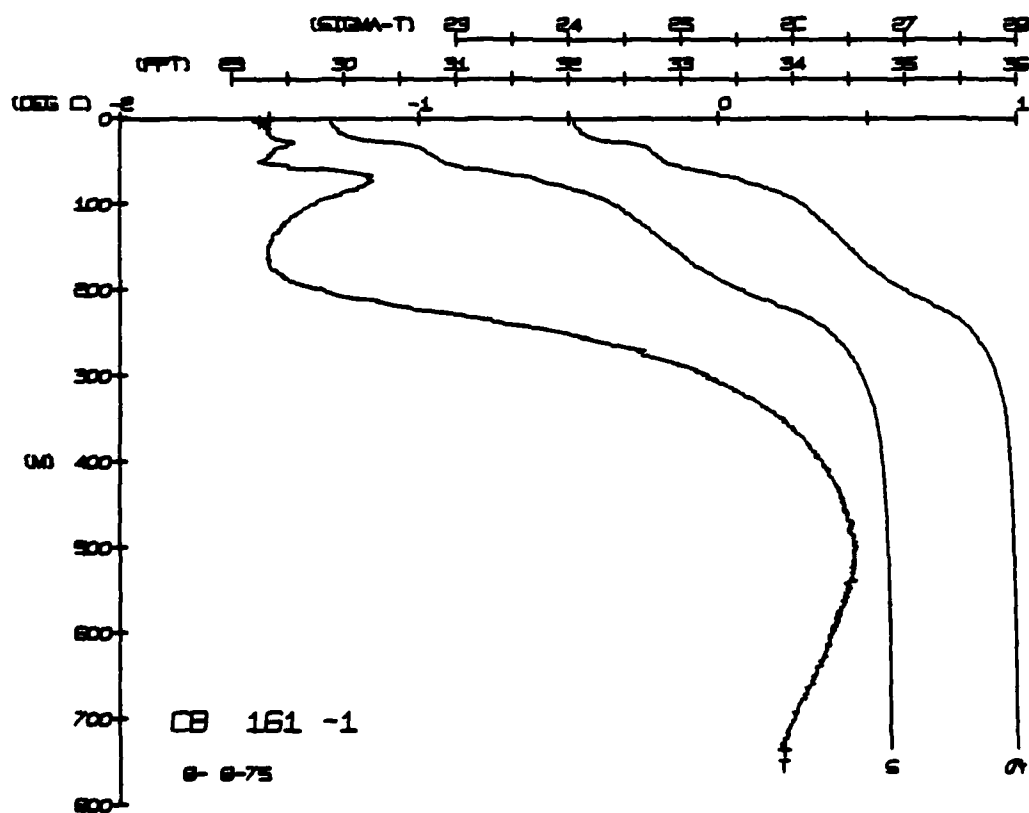
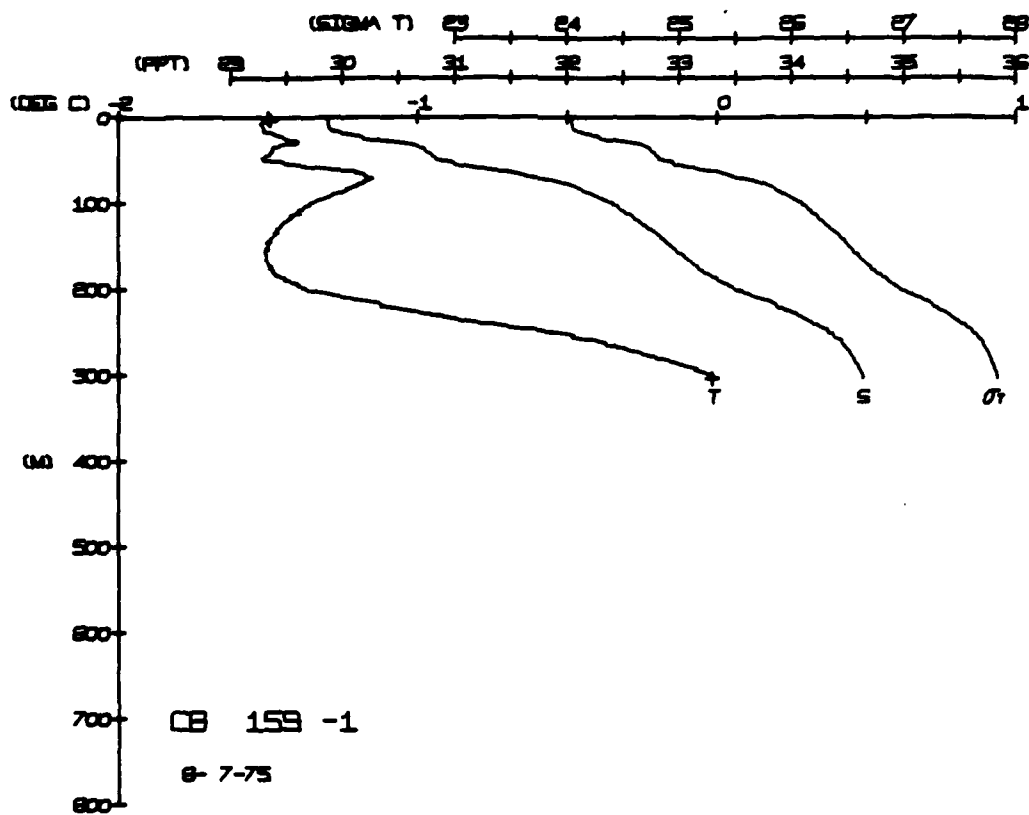












CANIBOU STATION 163(1) CTD 9/AUG/1975 644 GMT CODE = 1  
LAT = 74.4696N LNC = 143.1454W LTR = 251. LGER = 203.  
AIR TEMP = 987.8 WIND = 251. SPEED = 203.

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.7	54	54	29.97	24.12	380.4	0.000	1435.0
4.5	54	54	29.97	24.12	380.5	0.019	1435.5
10.5	54	54	29.98	24.12	379.7	0.037	1435.5
25.0	54	54	30.04	24.12	377.4	0.076	1435.5
35.0	54	54	30.12	24.12	376.2	0.095	1435.5
45.0	54	54	30.16	24.12	373.1	0.129	1435.5
55.0	54	54	30.17	24.12	371.0	0.145	1435.5
65.0	54	54	30.18	24.12	368.9	0.176	1435.5
80.0	54	54	30.21	24.12	365.1	0.202	1435.5
100.0	54	54	30.22	24.12	362.3	0.229	1435.5
120.0	54	54	30.22	24.12	359.5	0.271	1435.5
140.0	54	54	30.22	24.12	356.9	0.333	1435.5
160.0	54	54	30.22	24.12	354.5	0.352	1435.5
180.0	54	54	30.22	24.12	352.0	0.386	1435.5
200.0	54	54	30.22	24.12	349.9	0.416	1435.5
220.0	54	54	30.22	24.12	347.7	0.433	1435.5
240.0	54	54	30.22	24.12	345.5	0.453	1435.5
260.0	54	54	30.22	24.12	343.3	0.474	1435.5
280.0	54	54	30.22	24.12	341.1	0.485	1435.5
300.0	54	54	30.22	24.12	338.9	0.485	1435.5
320.0	54	54	30.22	24.12	336.7	0.485	1435.5
340.0	54	54	30.22	24.12	334.5	0.485	1435.5
360.0	54	54	30.22	24.12	332.3	0.485	1435.5
380.0	54	54	30.22	24.12	330.1	0.485	1435.5
400.0	54	54	30.22	24.12	327.9	0.485	1435.5
420.0	54	54	30.22	24.12	325.7	0.485	1435.5
440.0	54	54	30.22	24.12	323.5	0.485	1435.5
460.0	54	54	30.22	24.12	321.3	0.485	1435.5
480.0	54	54	30.22	24.12	319.1	0.485	1435.5
500.0	54	54	30.22	24.12	316.9	0.485	1435.5
520.0	54	54	30.22	24.12	314.7	0.485	1435.5
540.0	54	54	30.22	24.12	312.5	0.485	1435.5
560.0	54	54	30.22	24.12	310.3	0.485	1435.5
580.0	54	54	30.22	24.12	308.1	0.485	1435.5
600.0	54	54	30.22	24.12	305.9	0.485	1435.5
620.0	54	54	30.22	24.12	303.7	0.485	1435.5
640.0	54	54	30.22	24.12	301.5	0.485	1435.5
660.0	54	54	30.22	24.12	299.3	0.485	1435.5
680.0	54	54	30.22	24.12	297.1	0.485	1435.5
700.0	54	54	30.22	24.12	294.9	0.485	1435.5
720.0	54	54	30.22	24.12	292.7	0.485	1435.5
740.0	54	54	30.22	24.12	290.5	0.485	1435.5
760.0	54	54	30.22	24.12	288.3	0.485	1435.5
780.0	54	54	30.22	24.12	286.1	0.485	1435.5
800.0	54	54	30.22	24.12	283.9	0.485	1435.5
820.0	54	54	30.22	24.12	281.7	0.485	1435.5
840.0	54	54	30.22	24.12	279.5	0.485	1435.5
860.0	54	54	30.22	24.12	277.3	0.485	1435.5
880.0	54	54	30.22	24.12	275.1	0.485	1435.5
900.0	54	54	30.22	24.12	272.9	0.485	1435.5
920.0	54	54	30.22	24.12	270.7	0.485	1435.5
940.0	54	54	30.22	24.12	268.5	0.485	1435.5
960.0	54	54	30.22	24.12	266.3	0.485	1435.5
980.0	54	54	30.22	24.12	264.1	0.485	1435.5
1000.0	54	54	30.22	24.12	261.9	0.485	1435.5

HUT NUM = 1

DEPTH 3.7

TEMP. -1.54

SALIN

CARIBOU STATION 165(1) CTD 9/AUG/1975 1847 GMT CODE = 1  
LAT = 74.421N LNC = 142.923W LTR = 980.4 WIND = 92. SPEED = 81.

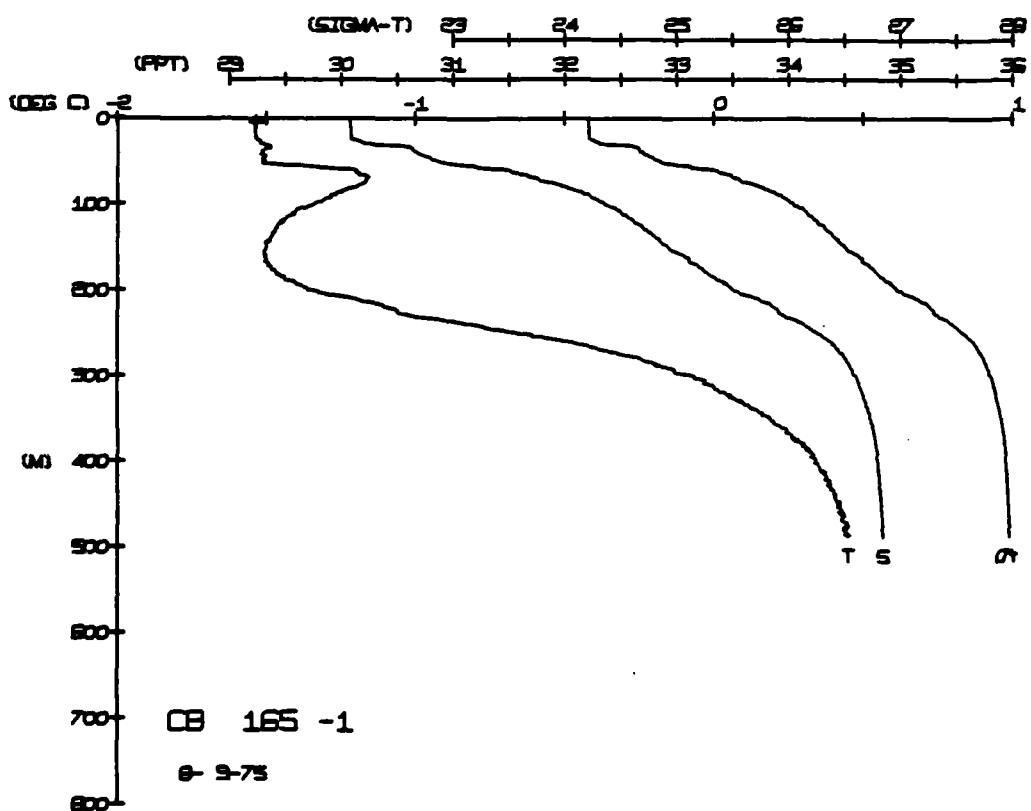
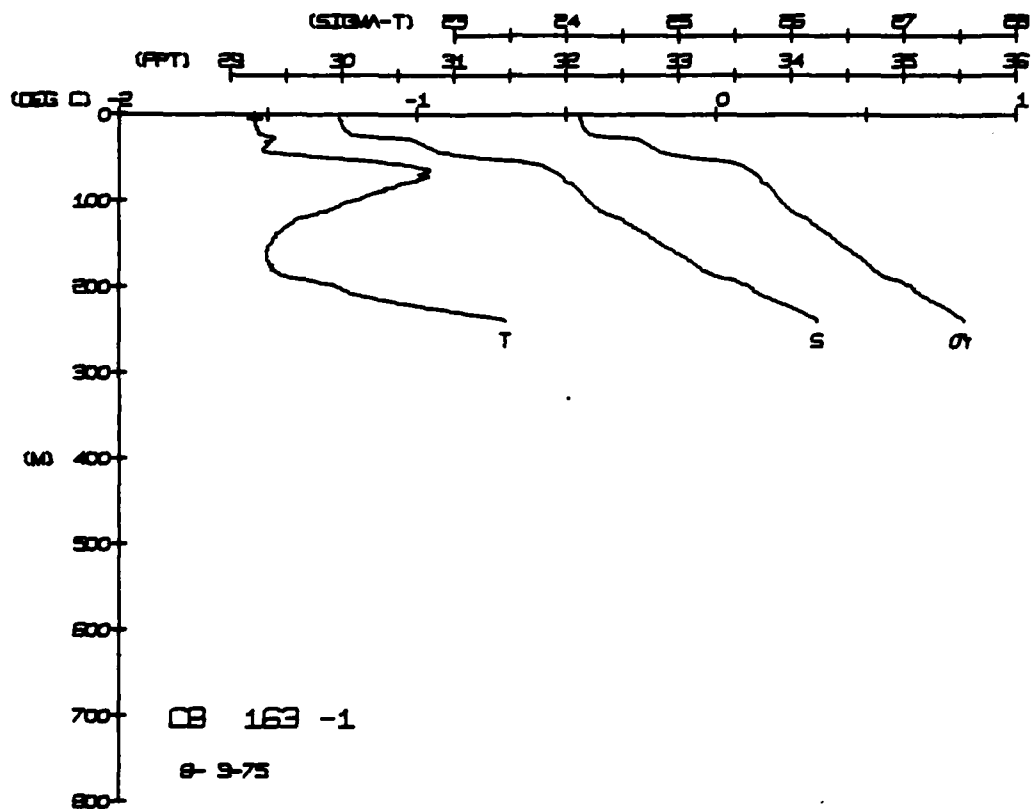
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.7	54	54	30.08	24.21	371.6	0.000	1435.1
4.5	54	54	30.08	24.21	371.7	0.014	1435.1
10.5	54	54	30.09	24.21	371.7	0.019	1435.1
25.0	54	54	30.09	24.21	371.7	0.054	1435.1
35.0	54	54	30.10	24.21	369.9	0.093	1435.1
45.0	54	54	30.12	24.21	366.7	0.129	1435.1
55.0	54	54	30.14	24.21	362.5	0.166	1435.1
65.0	54	54	30.16	24.21	357.9	0.198	1435.1
80.0	54	54	30.18	24.21	352.5	0.233	1435.1
100.0	54	54	30.20	24.21	346.9	0.279	1435.1
120.0	54	54	30.22	24.21	340.5	0.337	1435.1
140.0	54	54	30.22	24.21	333.7	0.371	1435.1
160.0	54	54	30.22	24.21	326.5	0.401	1435.1
180.0	54	54	30.22	24.21	318.9	0.428	1435.1
200.0	54	54	30.22	24.21	311.1	0.452	1435.1
220.0	54	54	30.22	24.21	303.3	0.470	1435.1
240.0	54	54	30.22	24.21	295.5	0.485	1435.1
260.0	54	54	30.22	24.21	287.7	0.496	1435.1
280.0	54	54	30.22	24.21	279.9	0.500	1435.1
300.0	54	54	30.22	24.21	272.1	0.507	1435.1
320.0	54	54	30.22	24.21	264.3	0.513	1435.1
340.0	54	54	30.22	24.21	256.5	0.518	1435.1
360.0	54	54	30.22	24.21	248.7	0.523	1435.1
380.0	54	54	30.22	24.21	240.9	0.527	1435.1
400.0	54	54	30.22	24.21	233.1	0.530	1435.1
420.0	54	54	30.22	24.21	225.3	0.533	1435.1
440.0	54	54	30.22	24.21	217.5	0.537	1435.1
460.0	54	54	30.22	24.21	209.7	0.540	1435.1
480.0	54	54	30.22	24.21	201.9	0.543	1435.1
500.0	54	54	30.22	24.21	194.1	0.546	1435.1
520.0	54	54	30.22	24.21	186.3	0.546	1435.1
540.0	54	54	30.22	24.21	178.5	0.546	1435.1
560.0	54	54	30.22	24.21	170.7	0.546	1435.1
580.0	54	54	30.22	24.21	162.9	0.546	1435.1
600.0	54	54	30.22	24.21	155.1	0.546	1435.1
620.0	54	54	30.22	24.21	147.3	0.546	1435.1
640.0	54	54	30.22	24.21	139.5	0.546	1435.1
660.0	54	54	30.22	24.21	131.7	0.546	1435.1
680.0	54	54	30.22	24.21	123.9	0.546	1435.1
700.0	54	54	30.22	24.21	116.1	0.546	1435.1
720.0	54	54	30.22	24.21	108.3	0.546	1435.1
740.0	54	54	30.22	24.21	100.5	0.546	1435.1
760.0	54	54	30.22	24.21	92.7	0.546	1435.1
780.0	54	54	30.22	24.21	84.9	0.546	1435.1
800.0	54	54	30.22	24.21	77.1	0.546	1435.1
820.0	54	54	30.22	24.21	69.3	0.546	1435.1
840.0	54	54	30.22	24.21	61.5	0.546	1435.1
860.0	54	54	30.22	24.21	53.7	0.546	1435.1
880.0	54	54	30.22	24.21	45.9	0.546	1435.1
900.0	54	54	30.22	24.21	38.1	0.546	1435.1
920.0	54	54	30.22	24.21	30.3	0.546	1435.1
940.0	54	54	30.22	24.21	22.5	0.546	1435.1
960.0	54	54	30.22	24.21	14.7	0.546	1435.1
980.0	54	54	30.22	24.21	6.9	0.546	1435.1
1000.0	54	54	30.22	24.21	0.1	0.546	1435.1

HUT NUM = 1

DEPTH 3.4

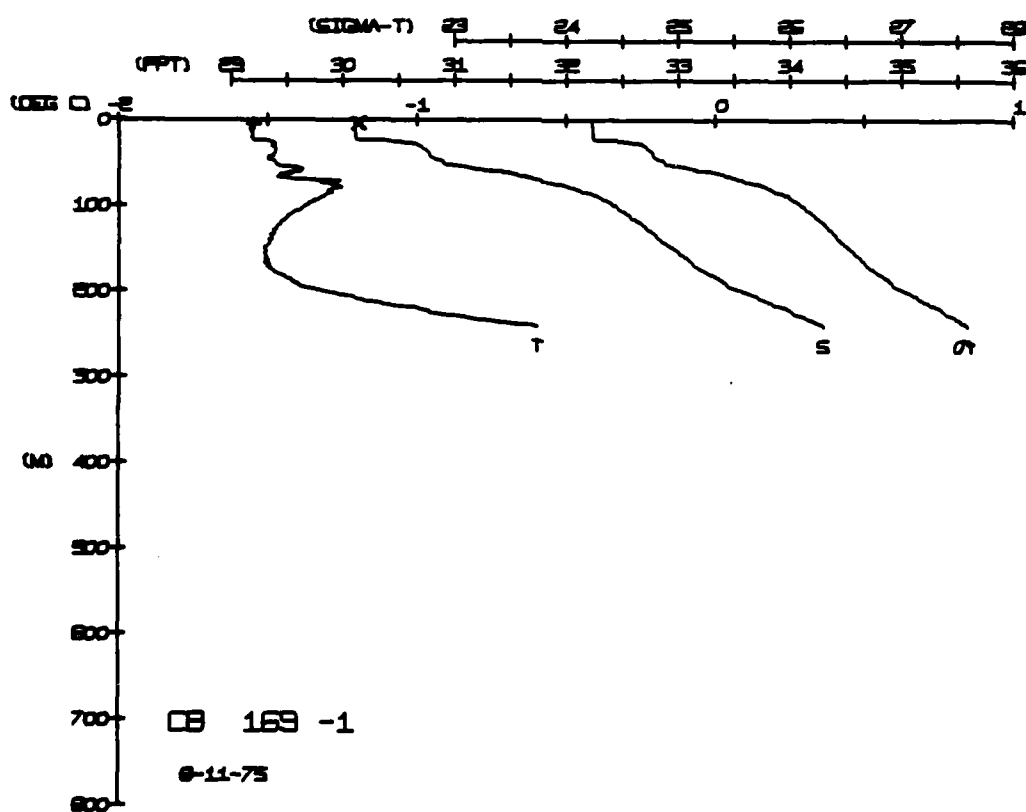
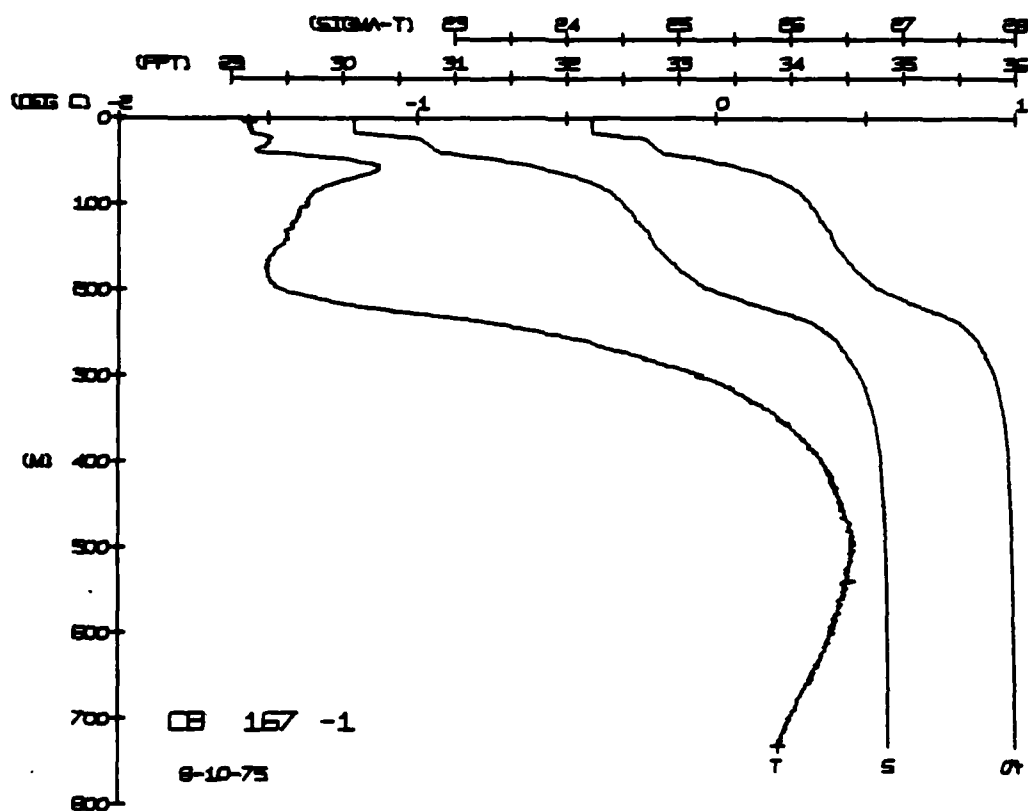
TEMP. -1.53

SALIN



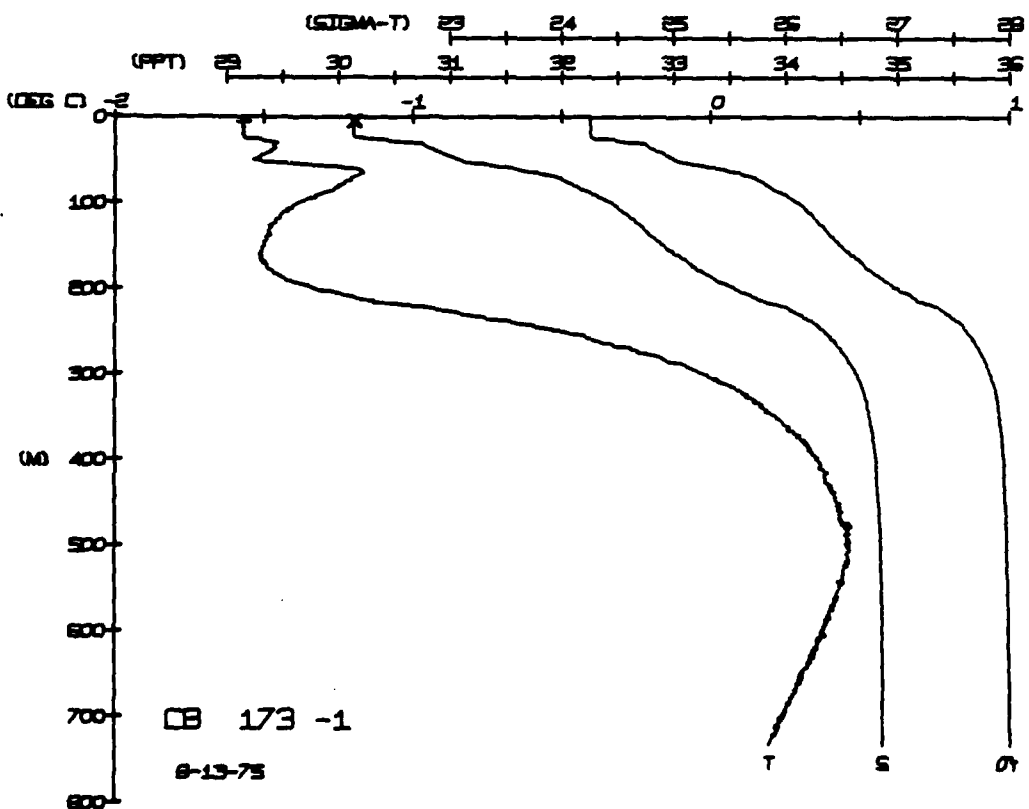
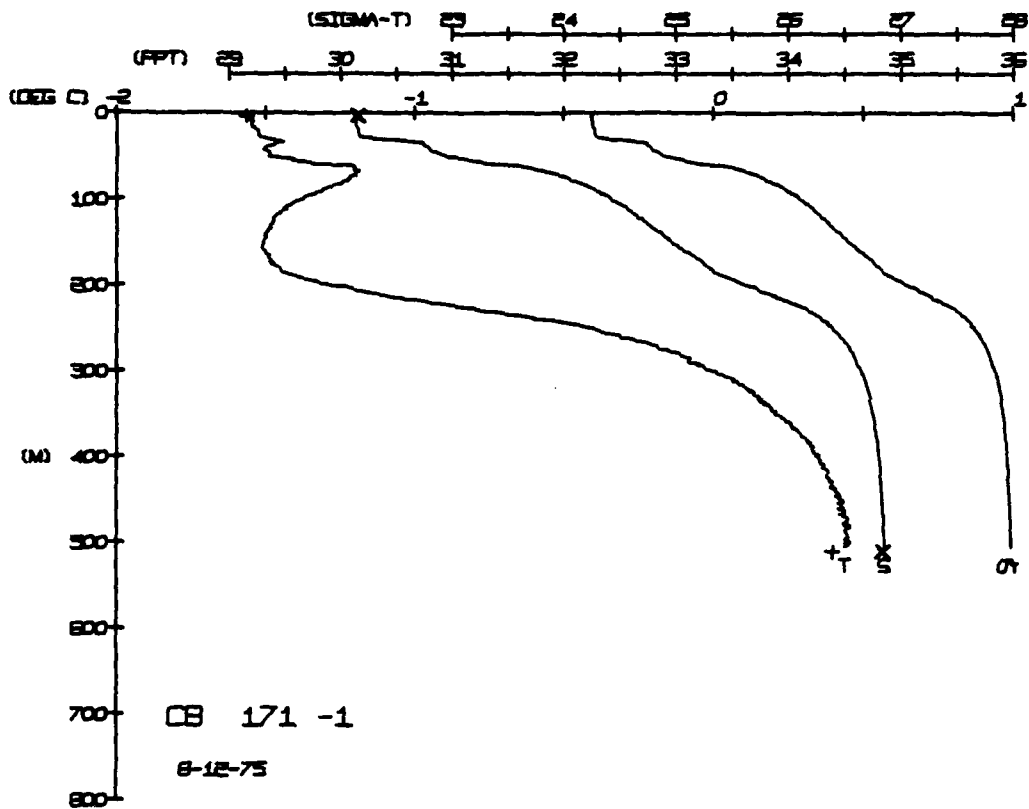




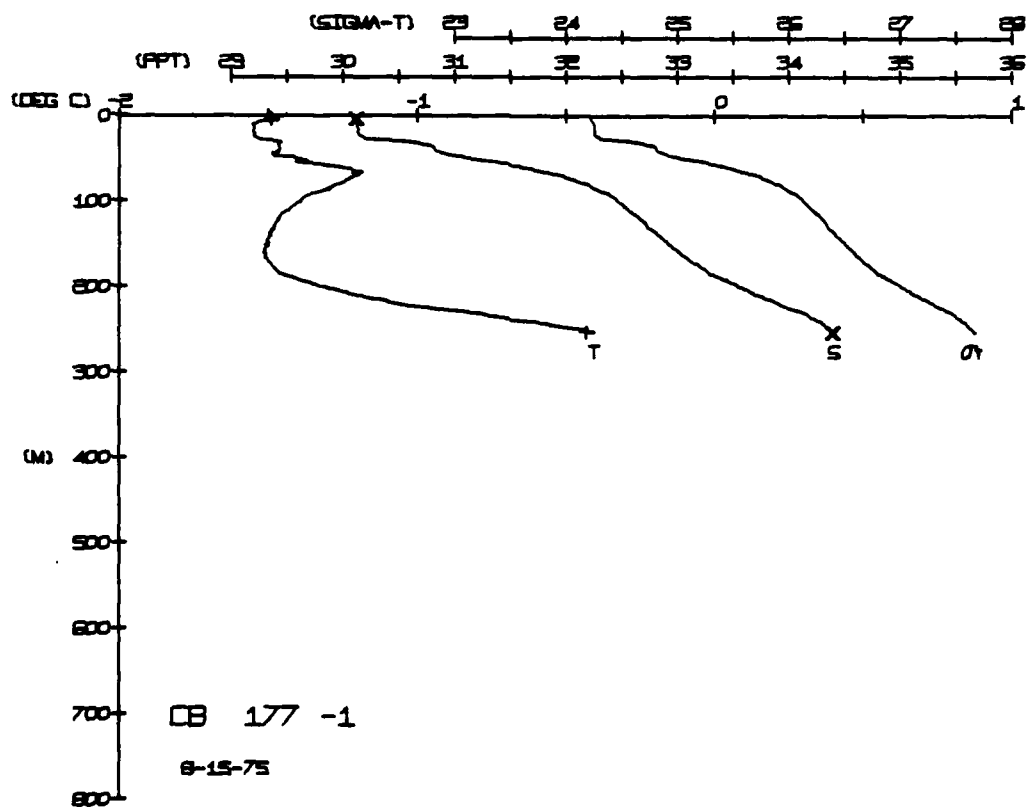
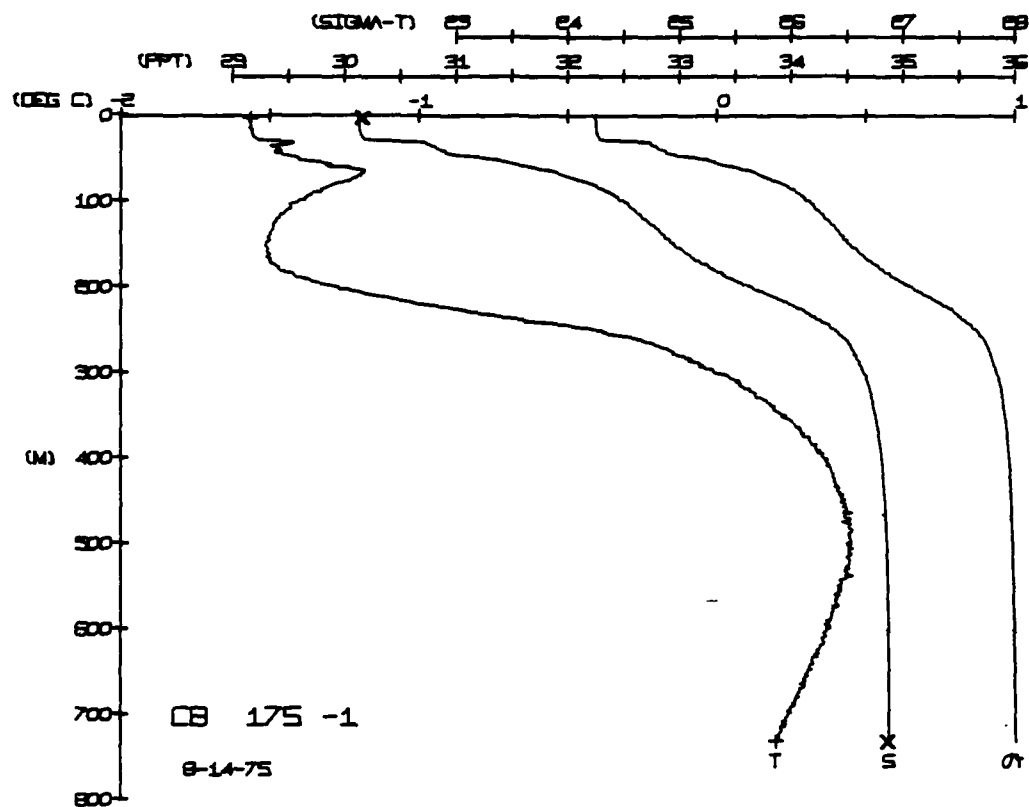


CARIBOU STATION 173(1) CTD 13/AUG/1975 1055 GMT CODE = 1  
LAT = 74.2145N LNG = 141.8467W LTER = 1 LGPR = 2  
AIR TEMP = 1.7 BAROM = 1001.3 WIND = 214.7 SPEED = 70.3

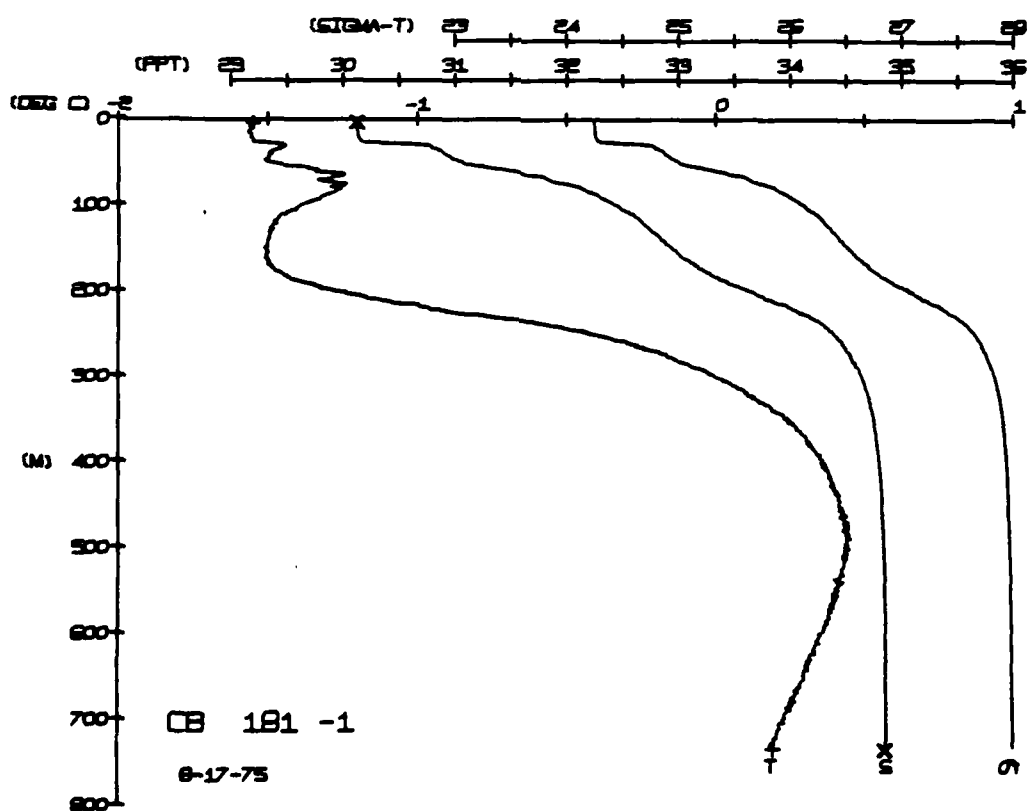
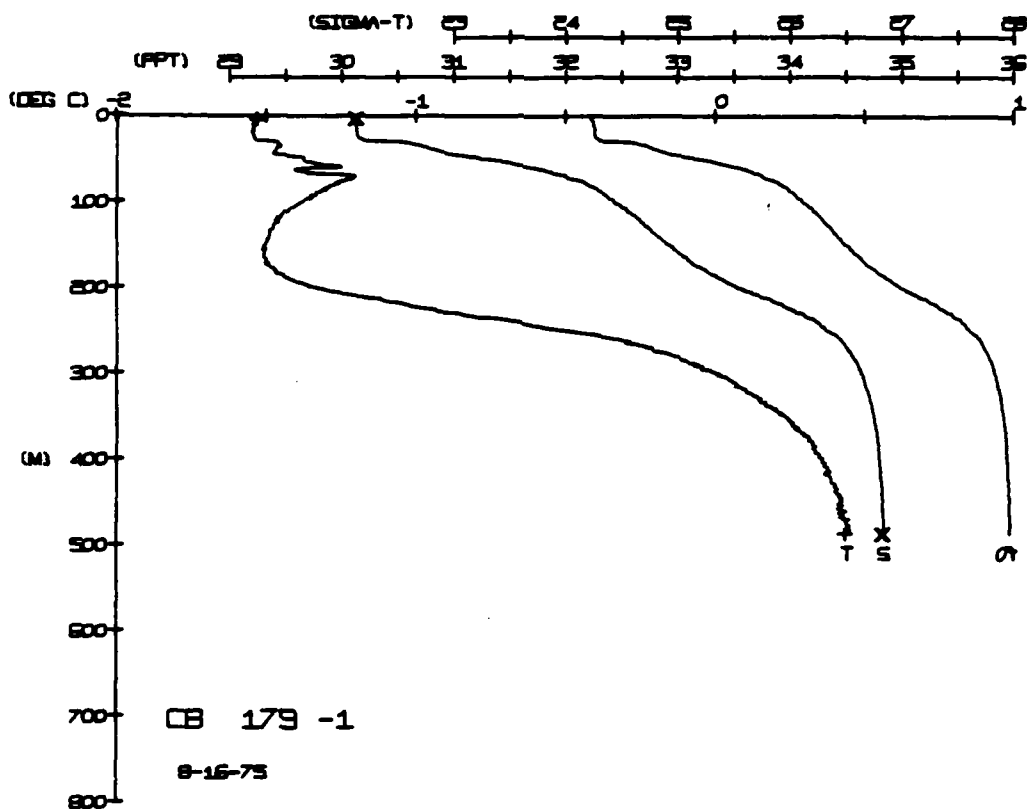
[illegible]





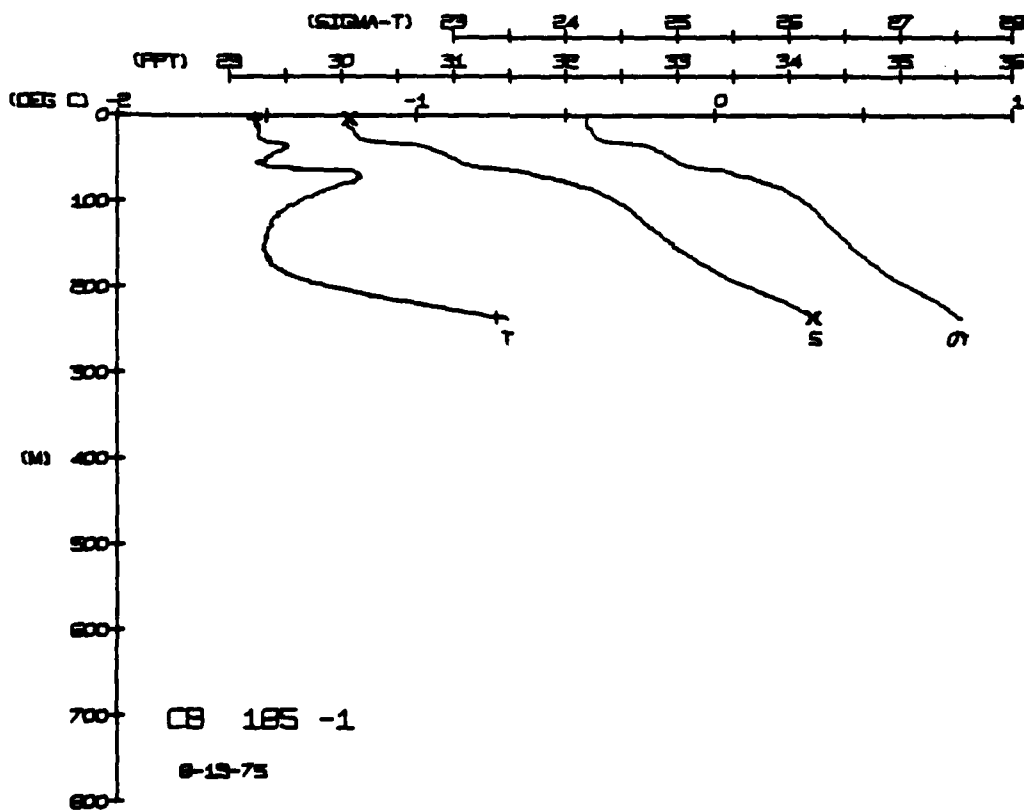
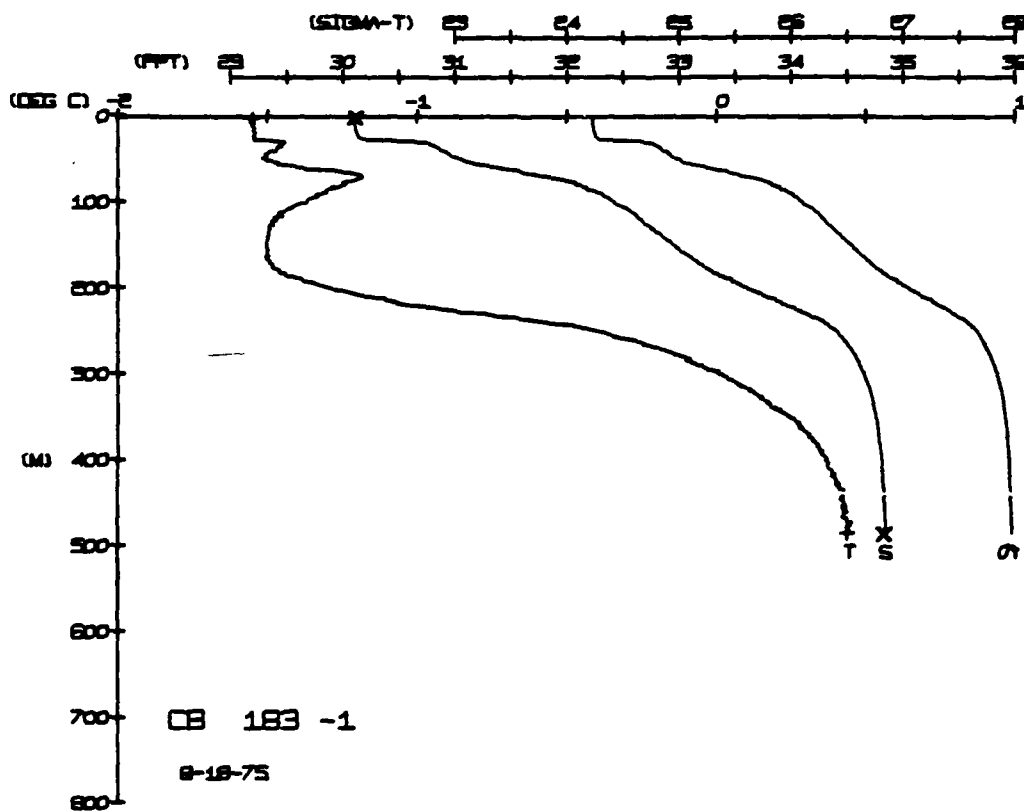




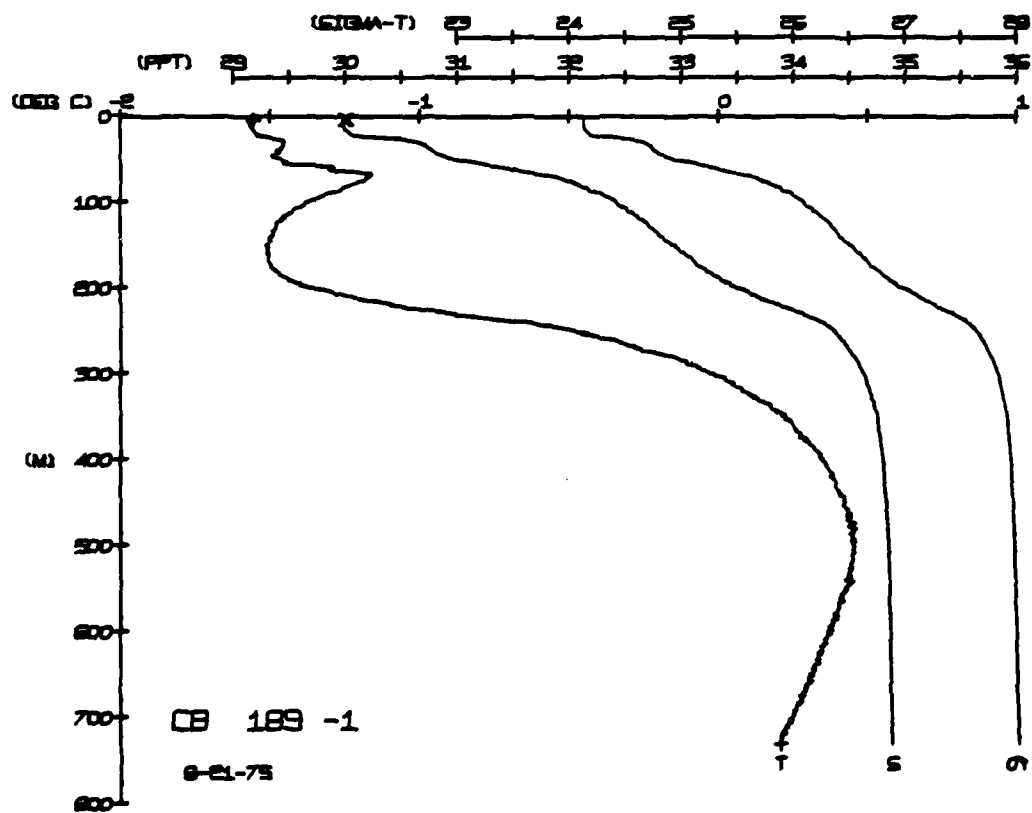
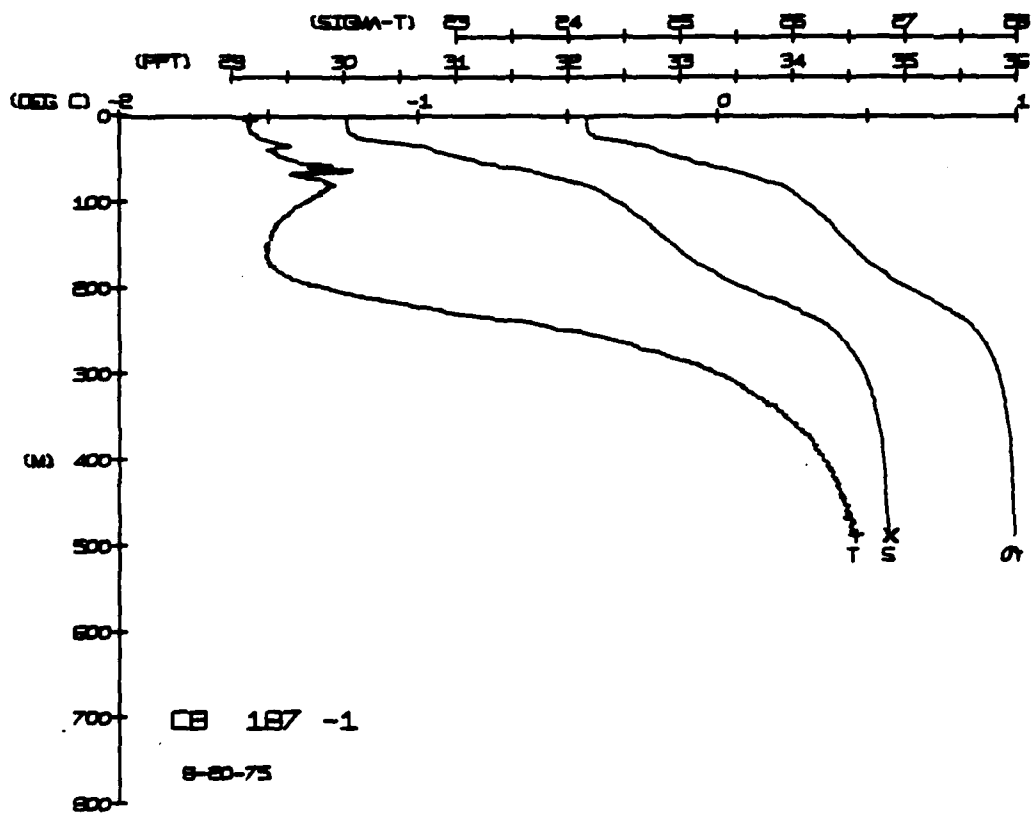




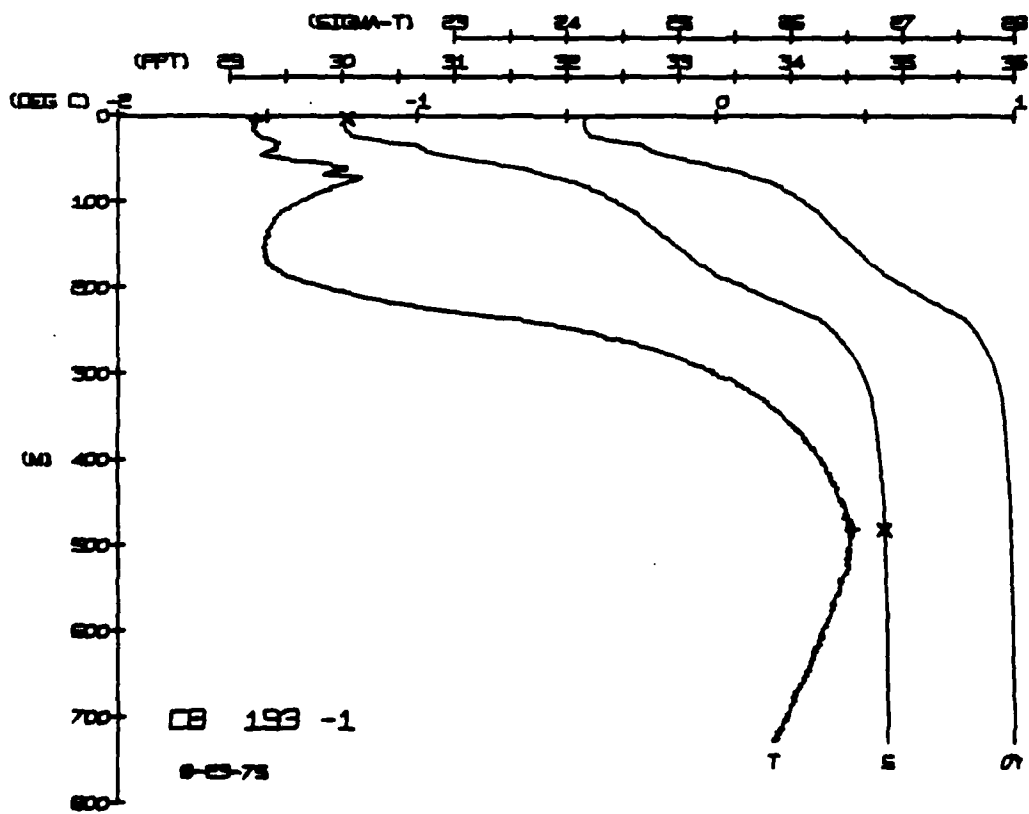
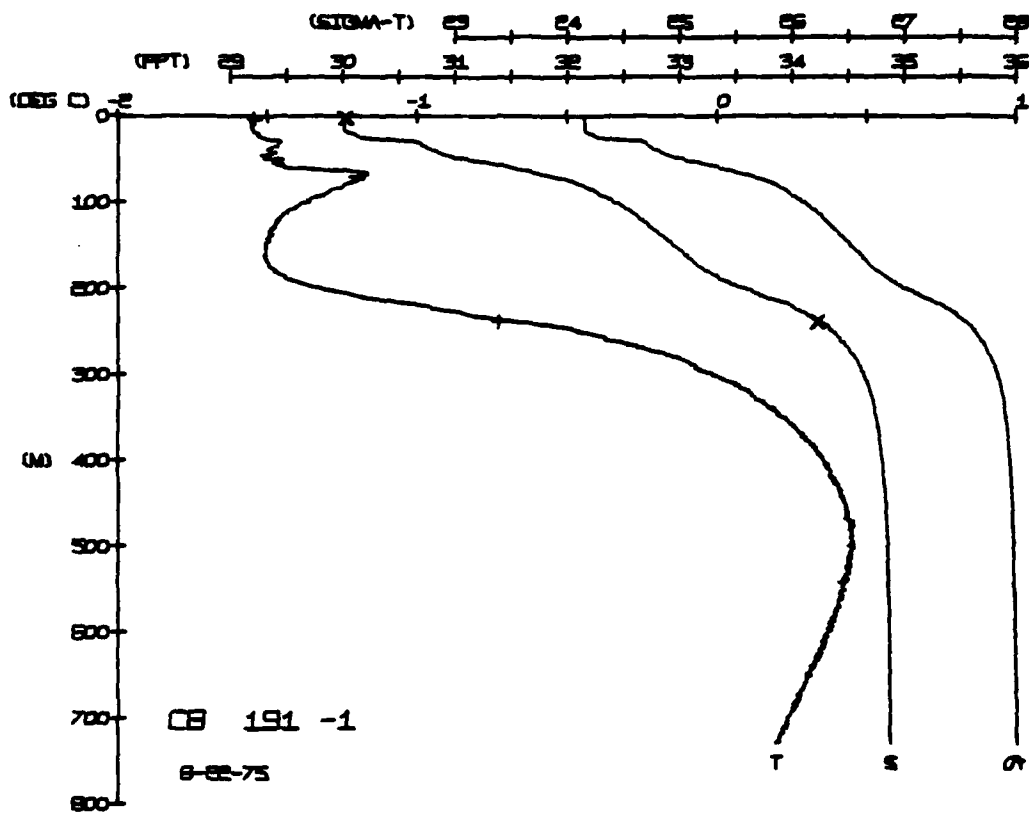




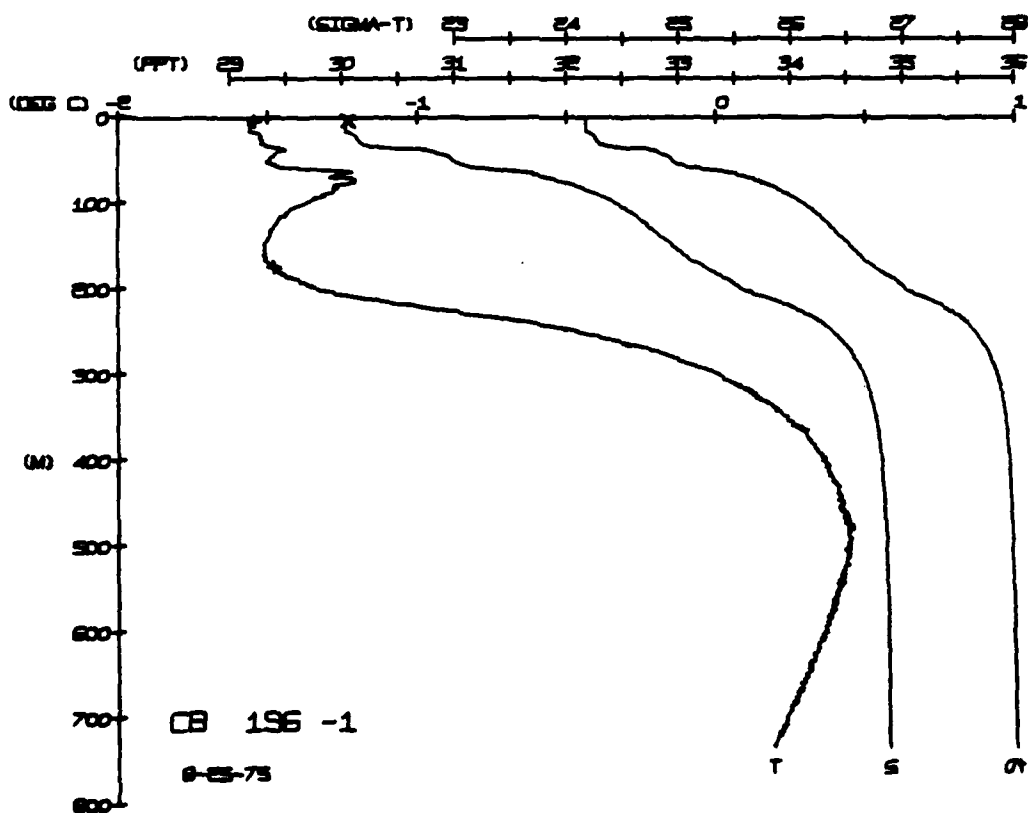
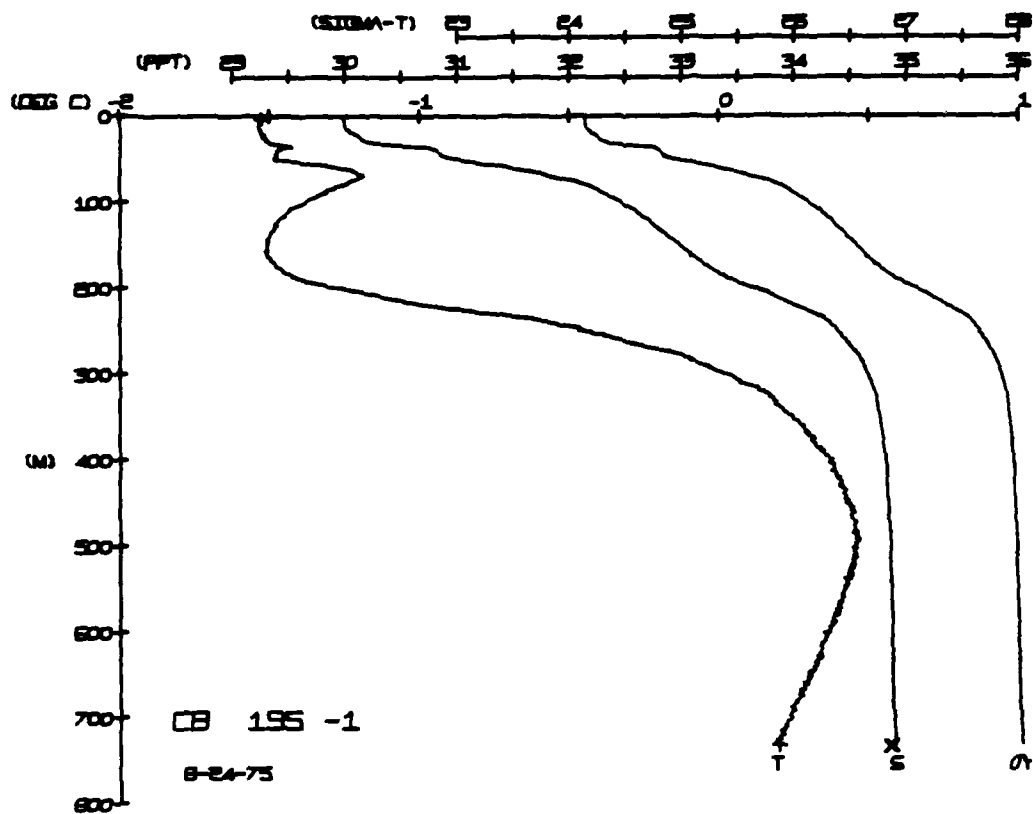






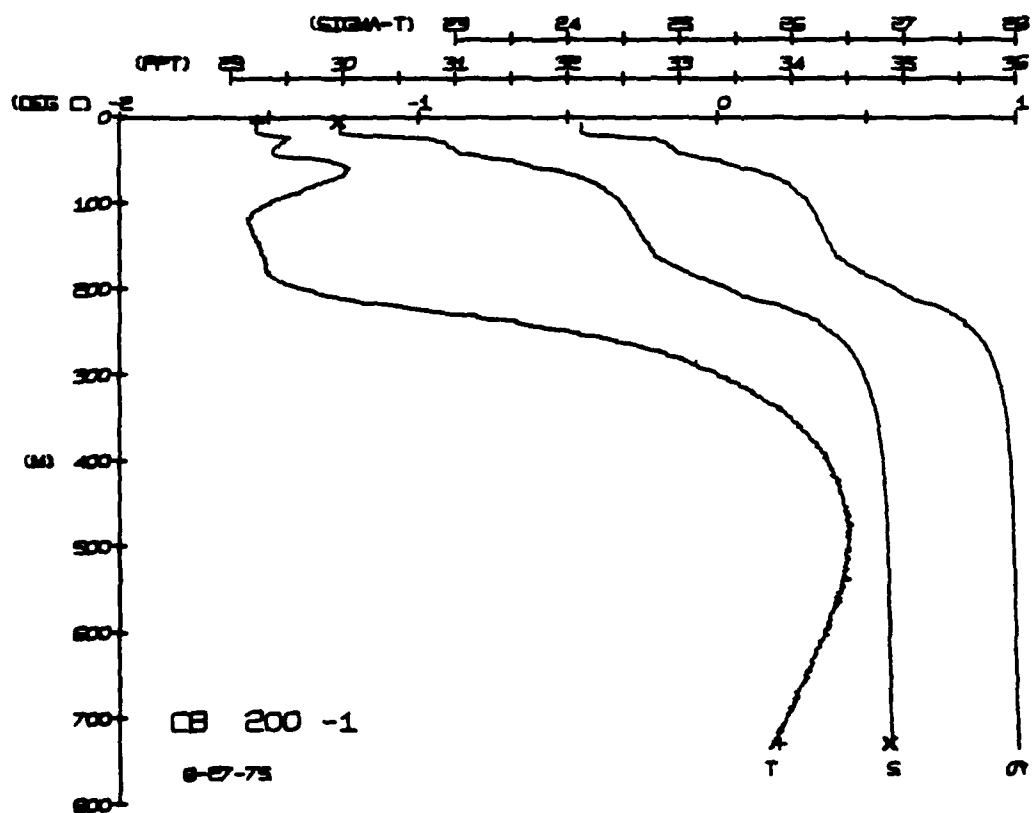
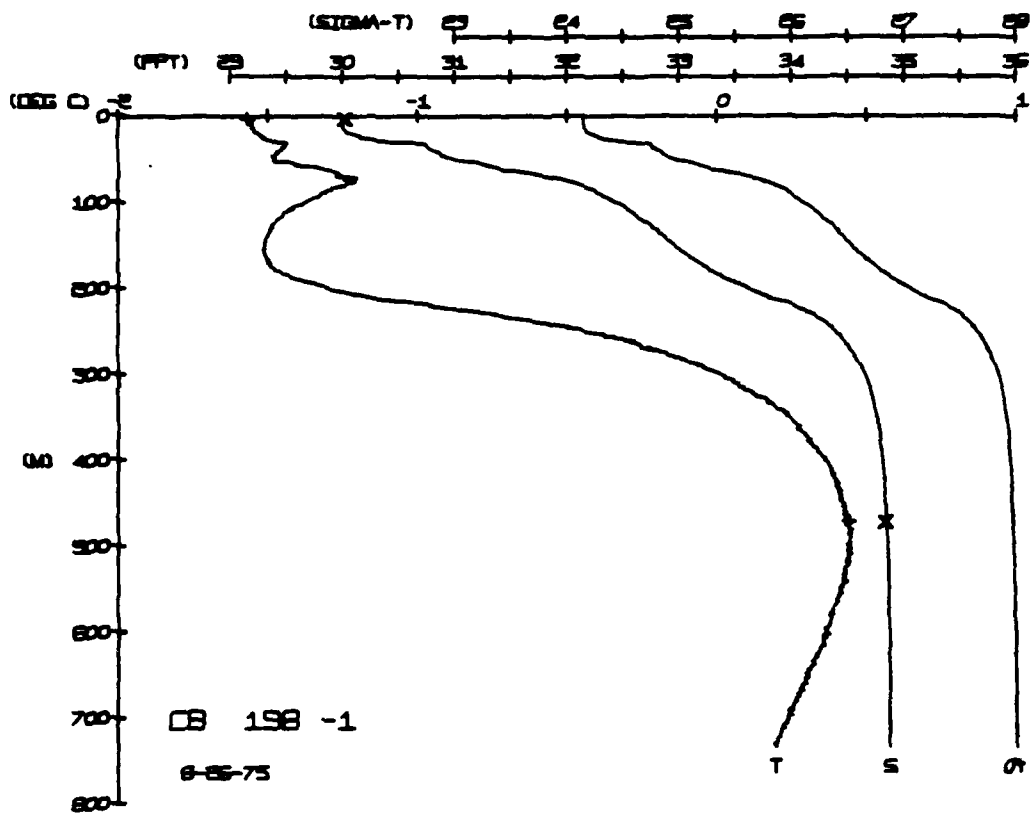




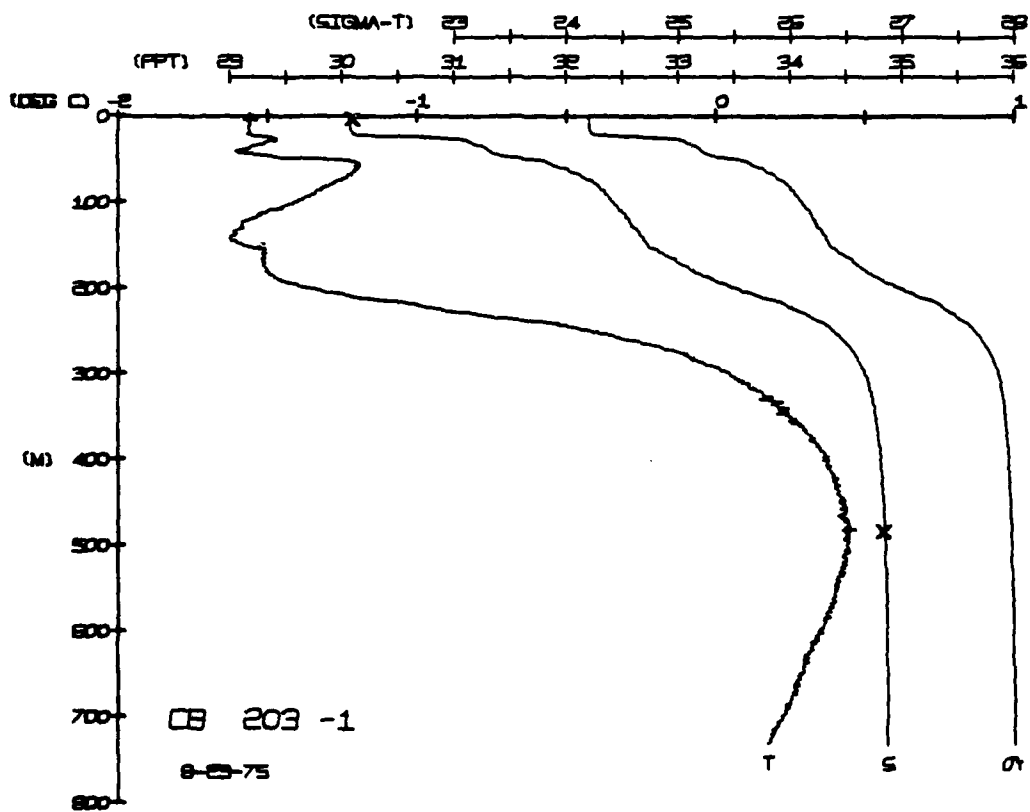
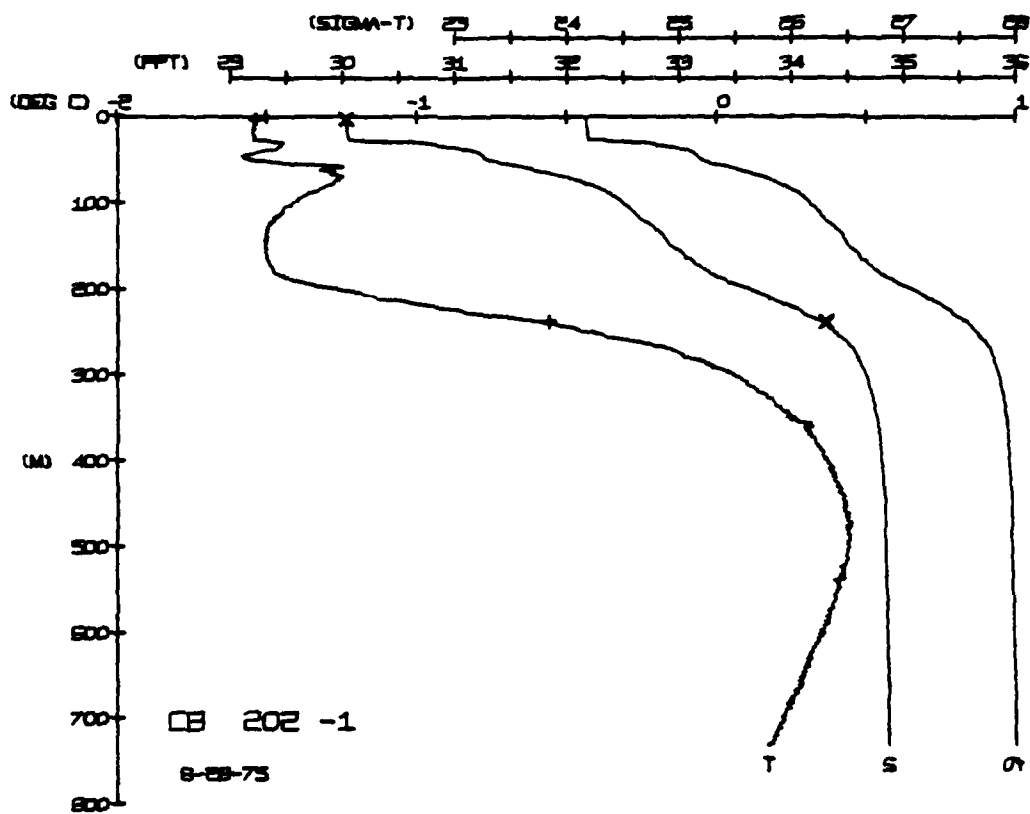




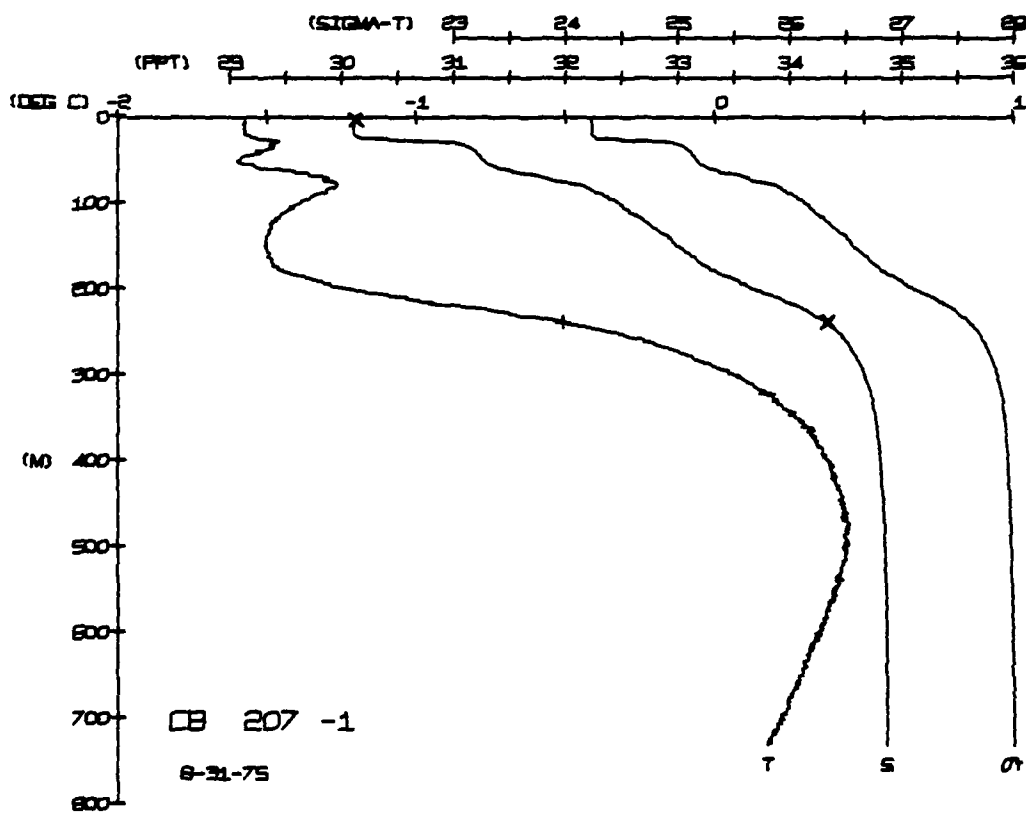
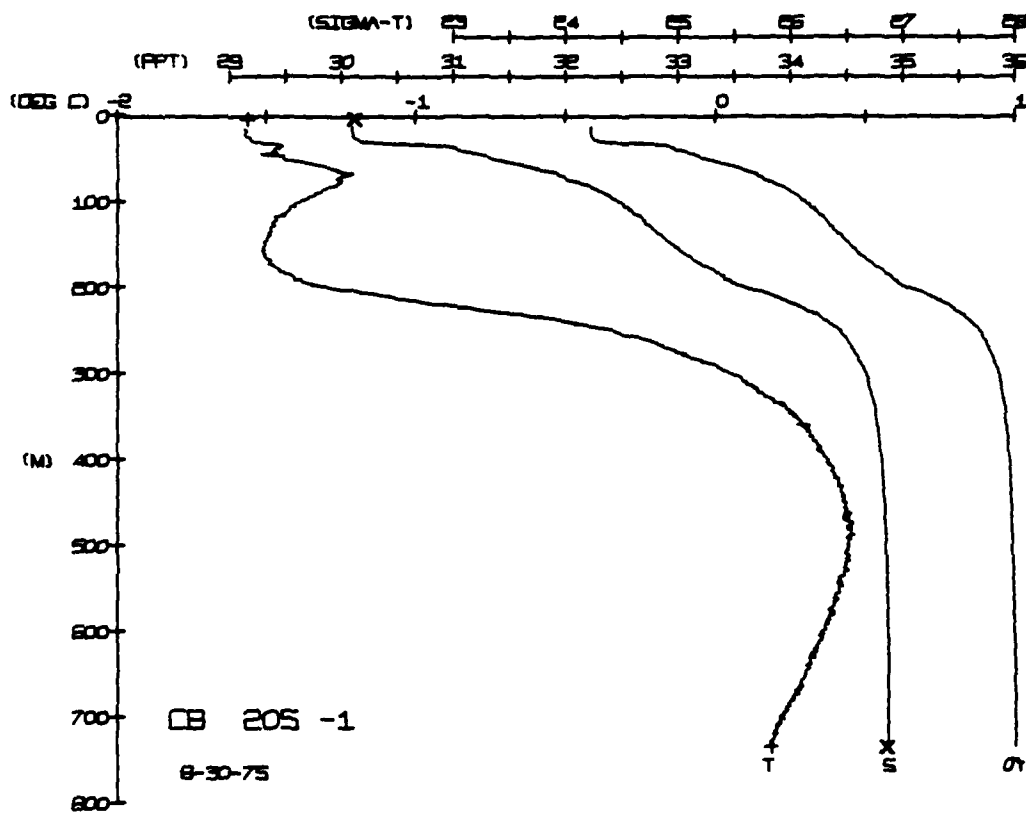




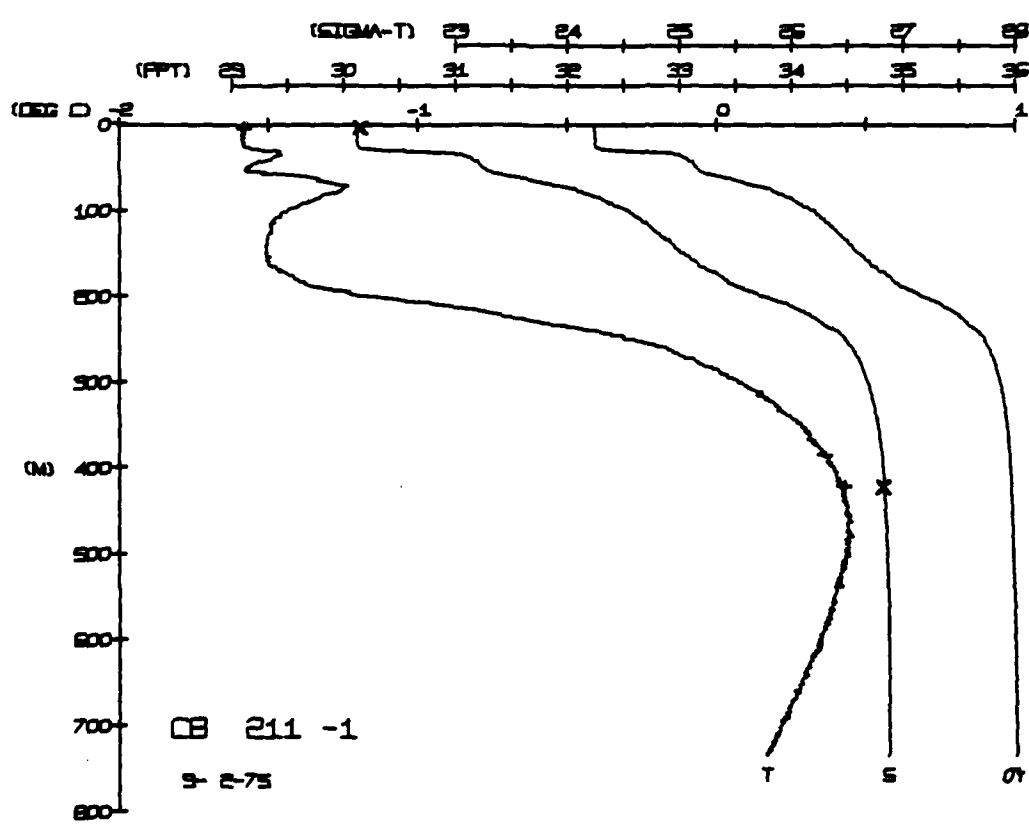
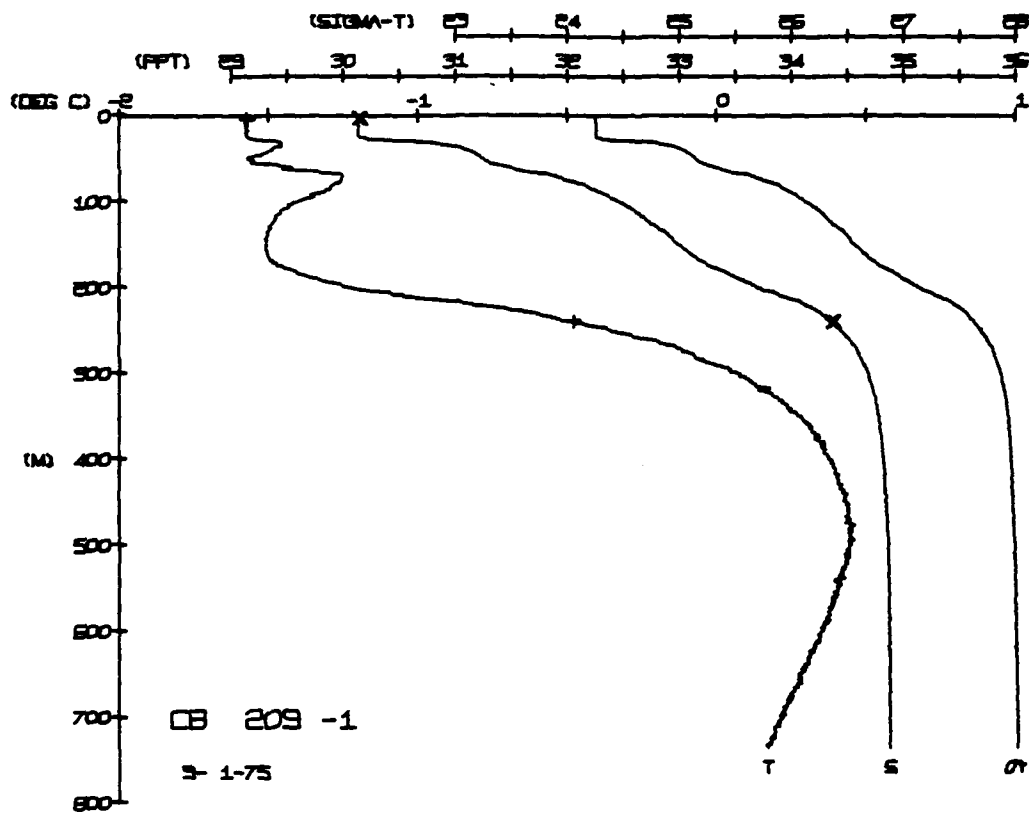






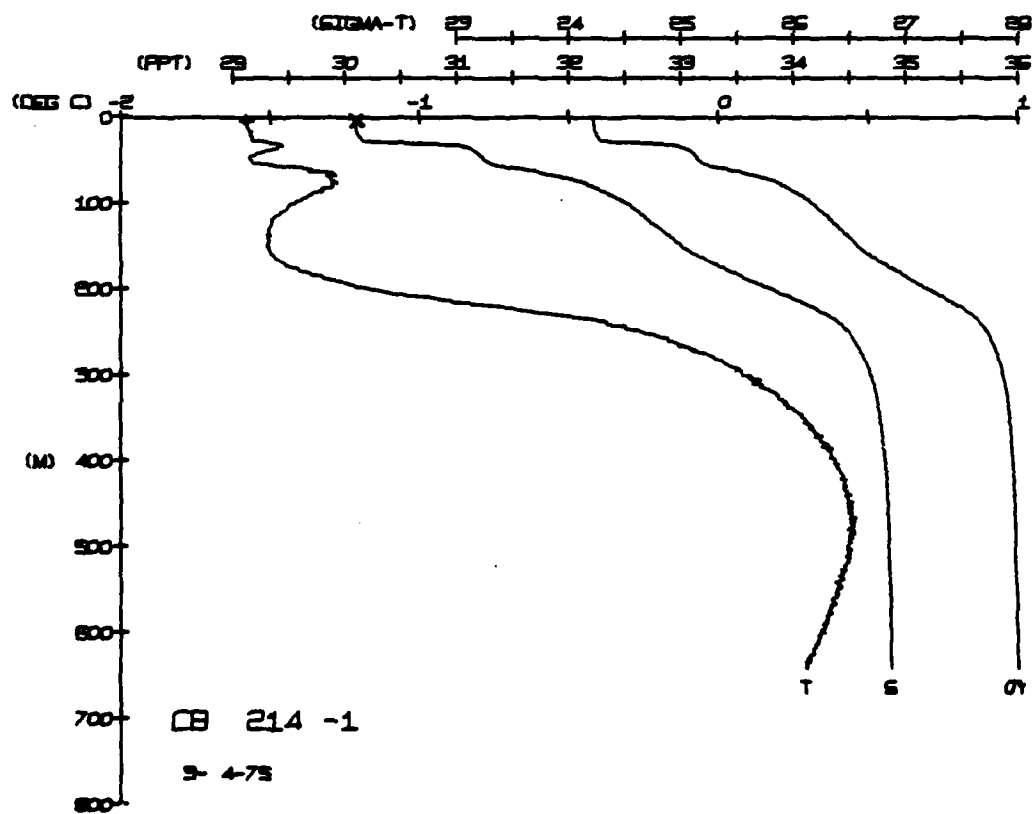
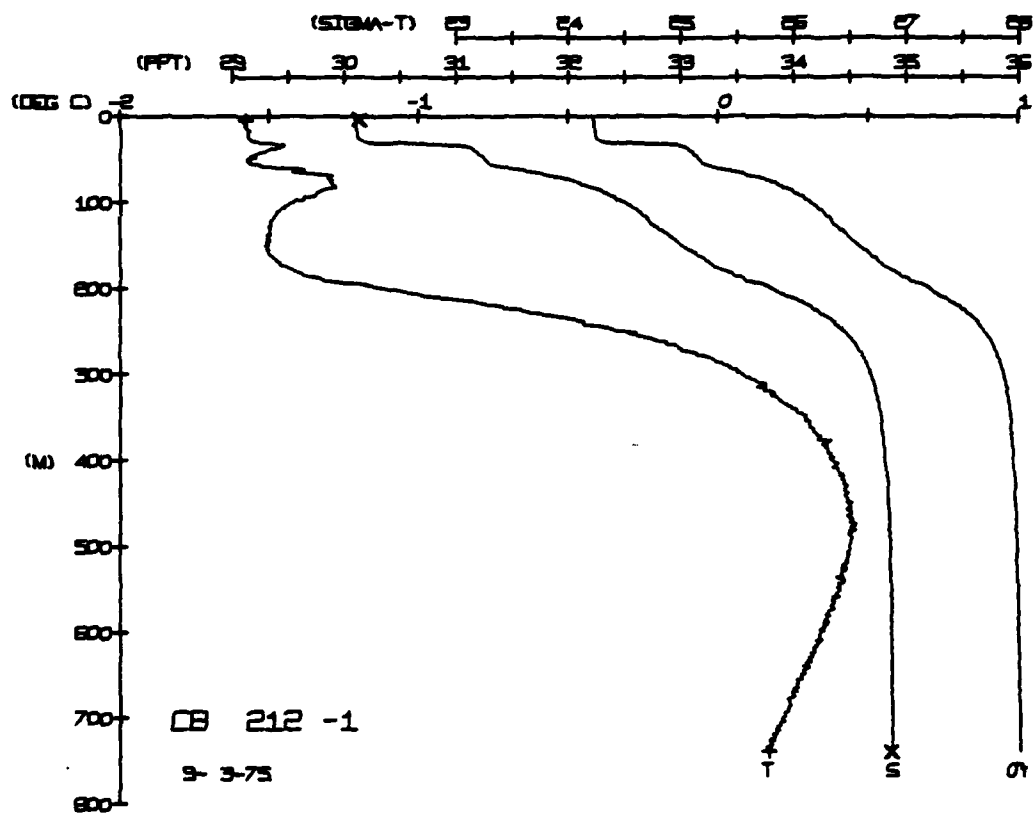




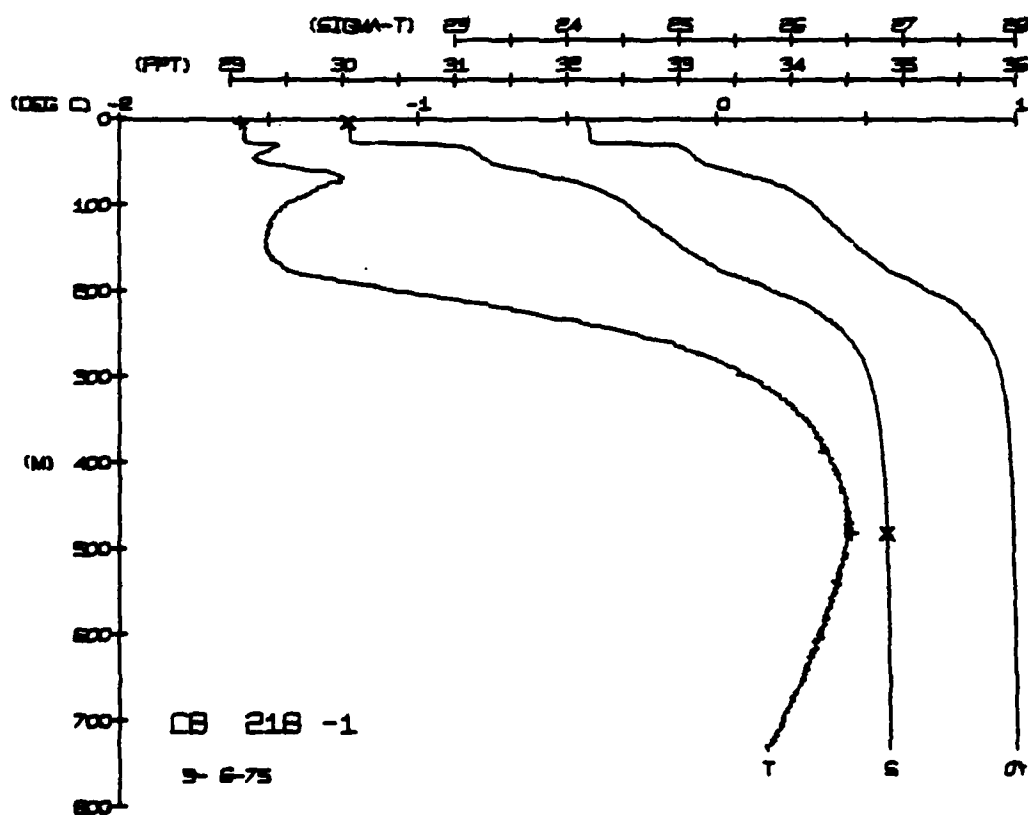
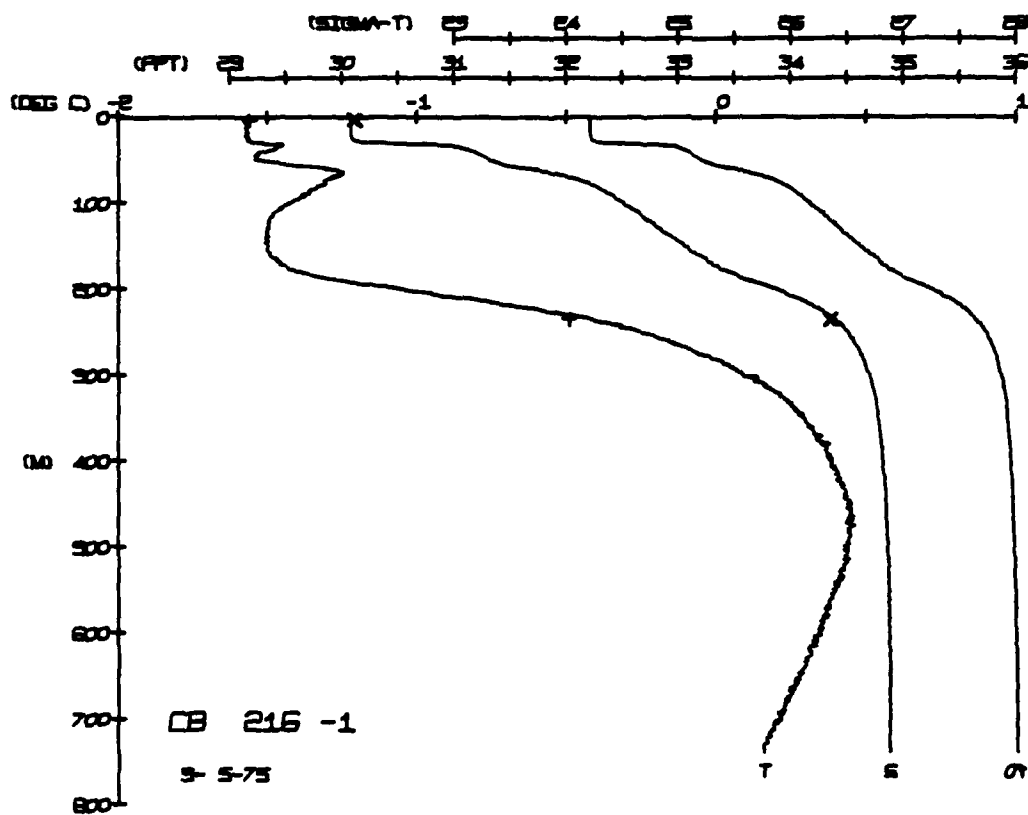




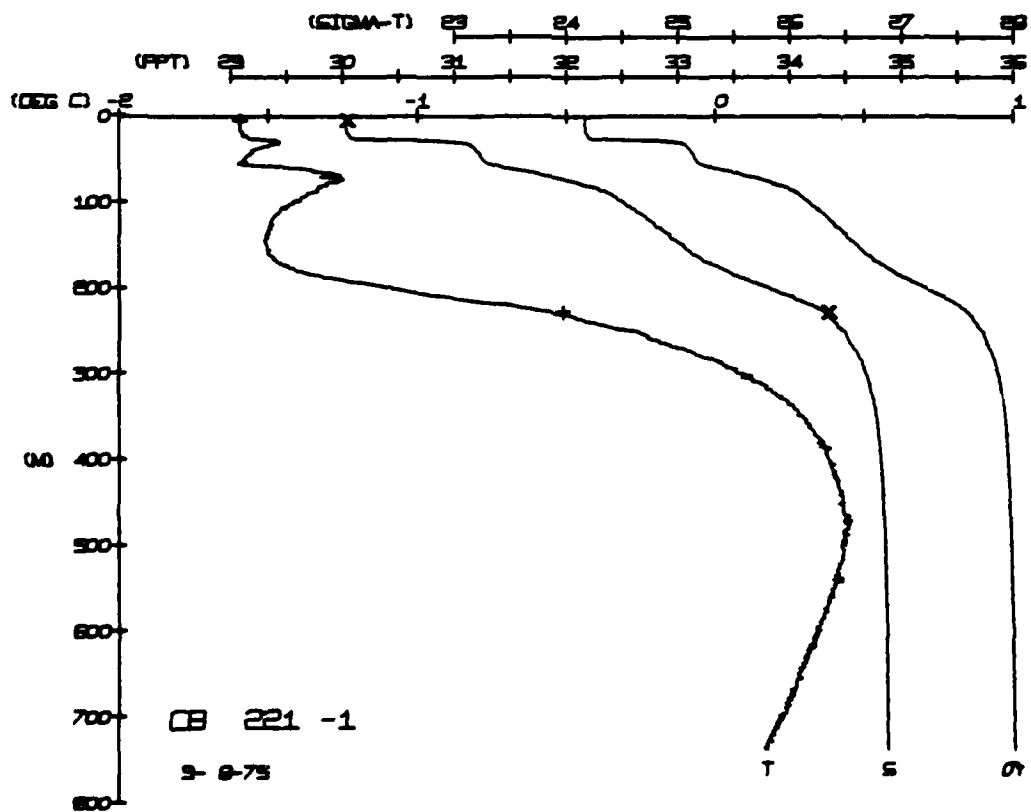
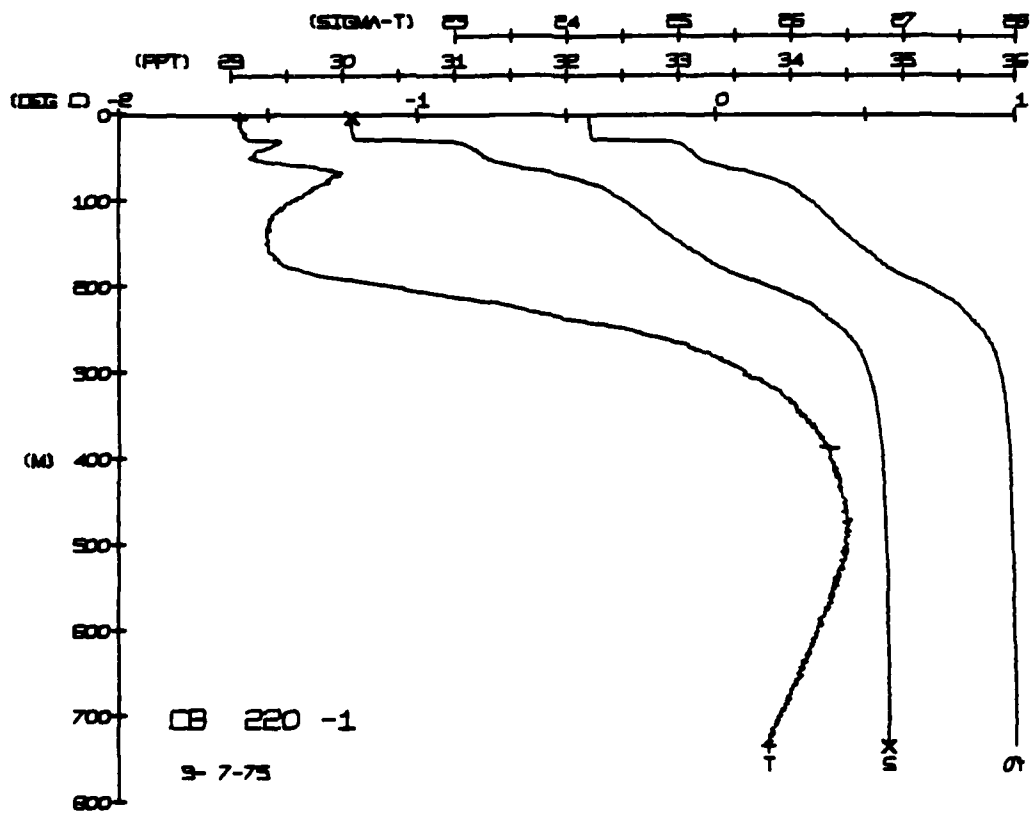




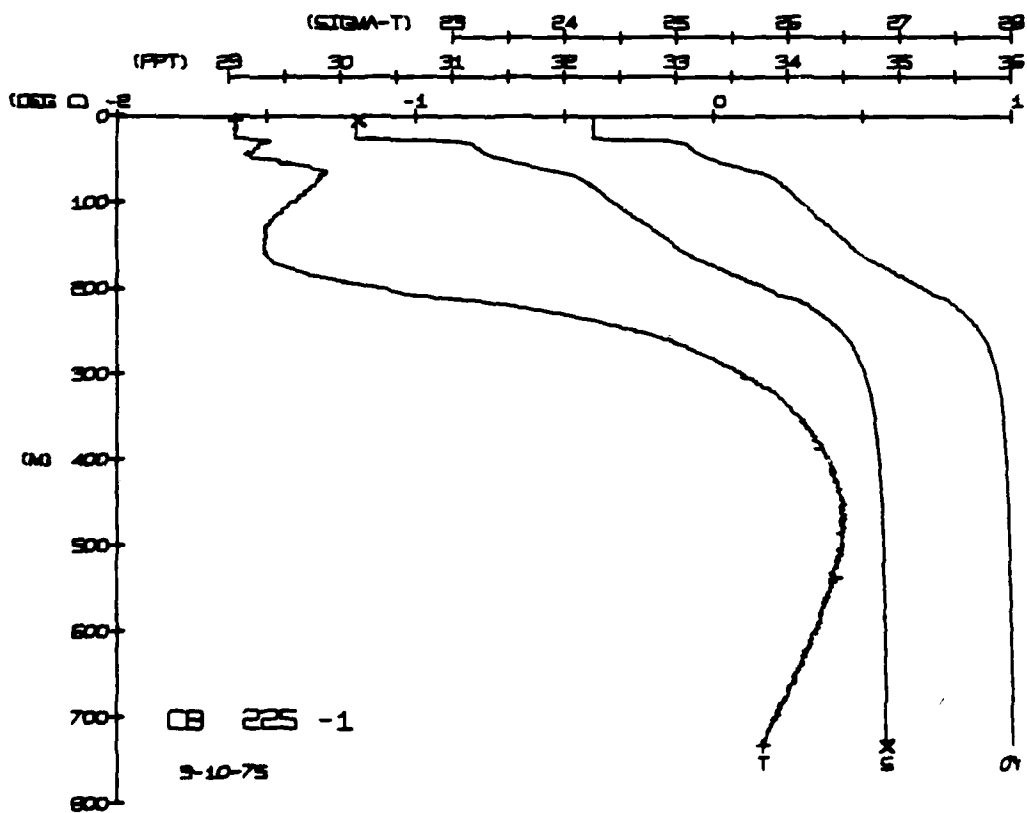
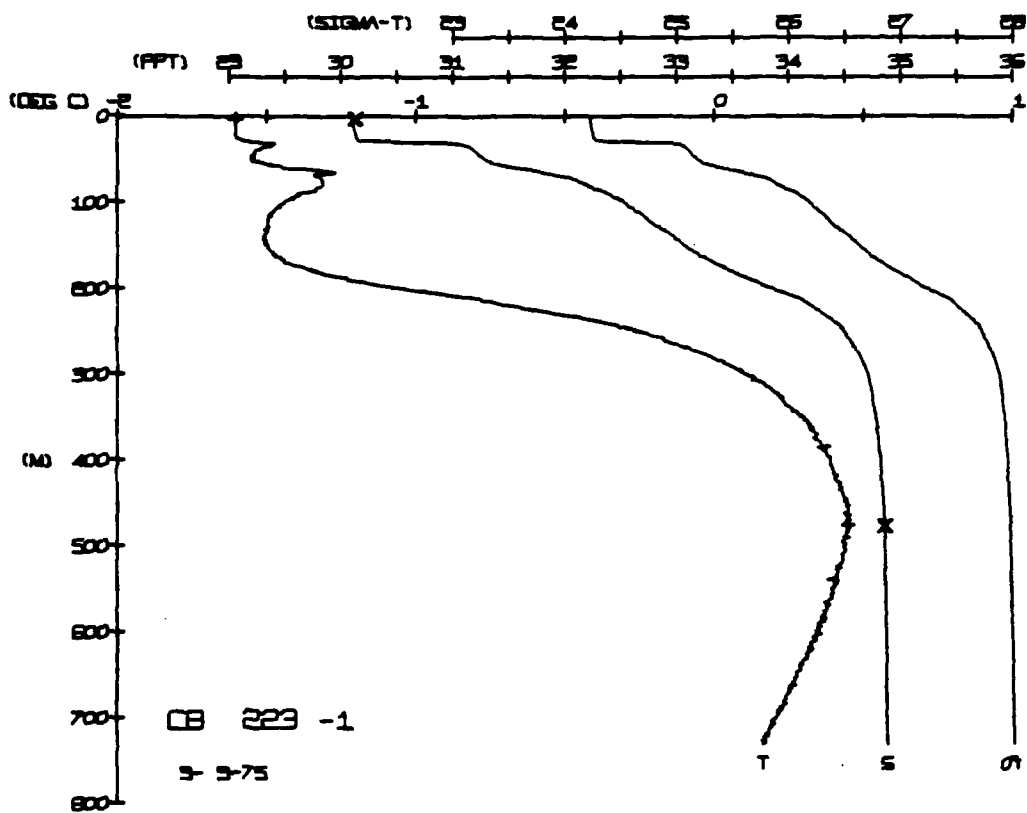






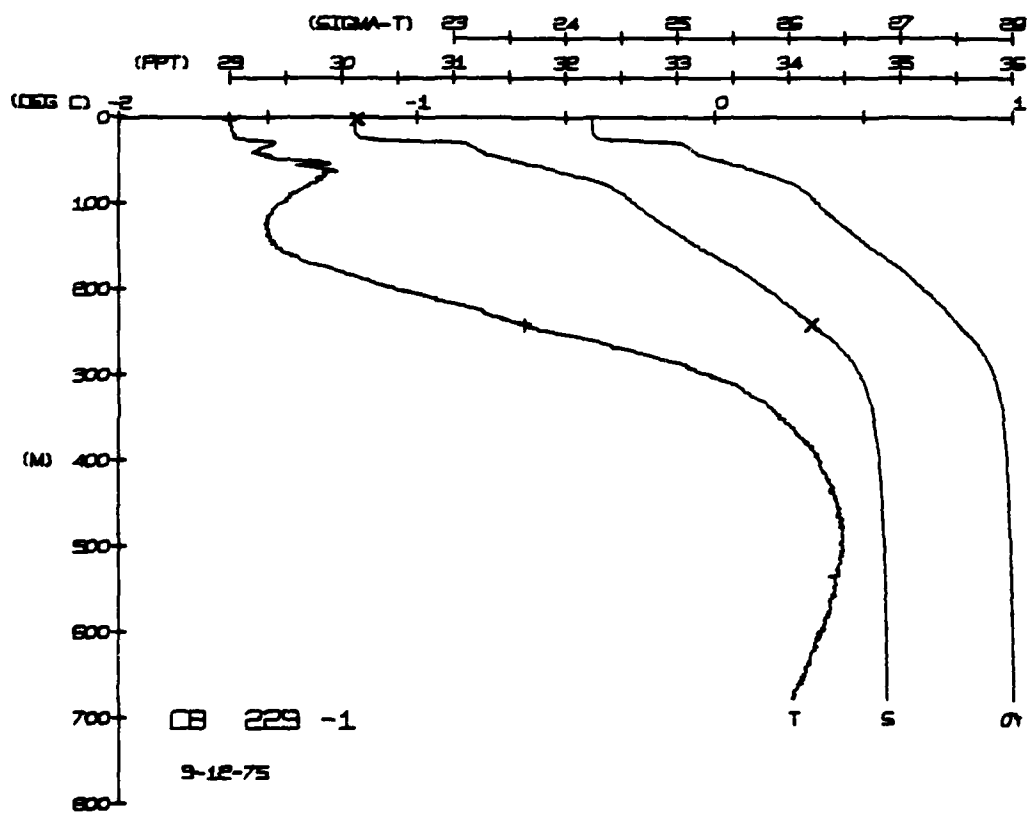
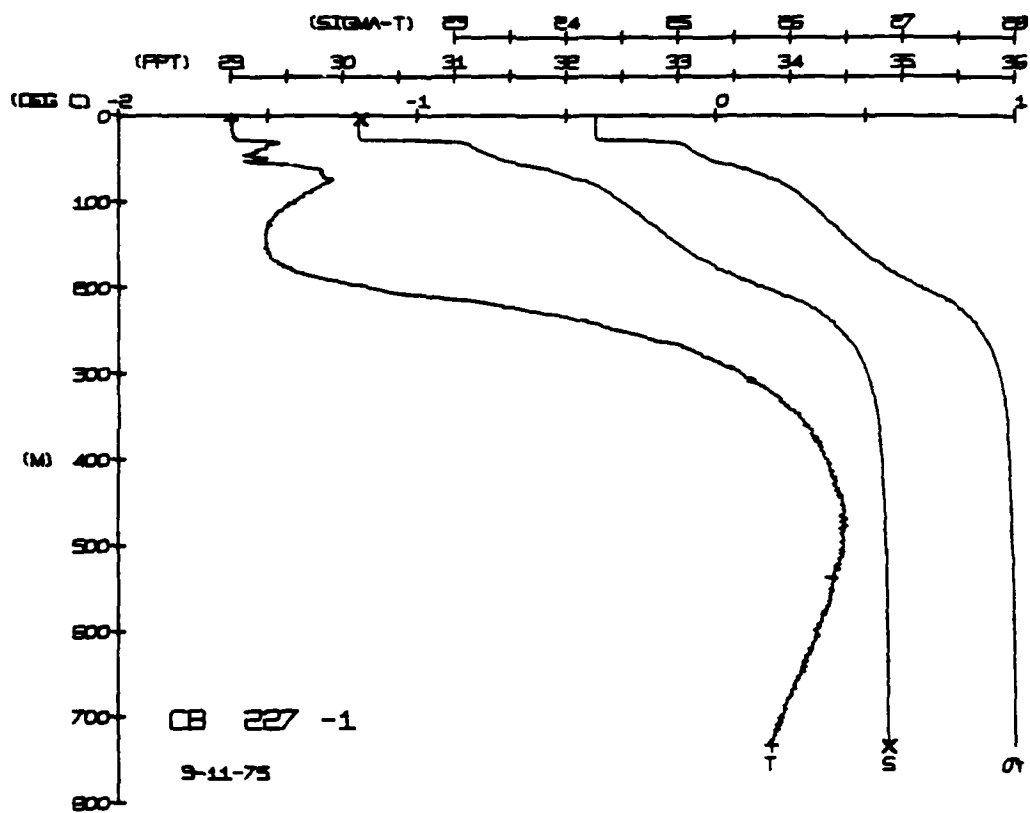




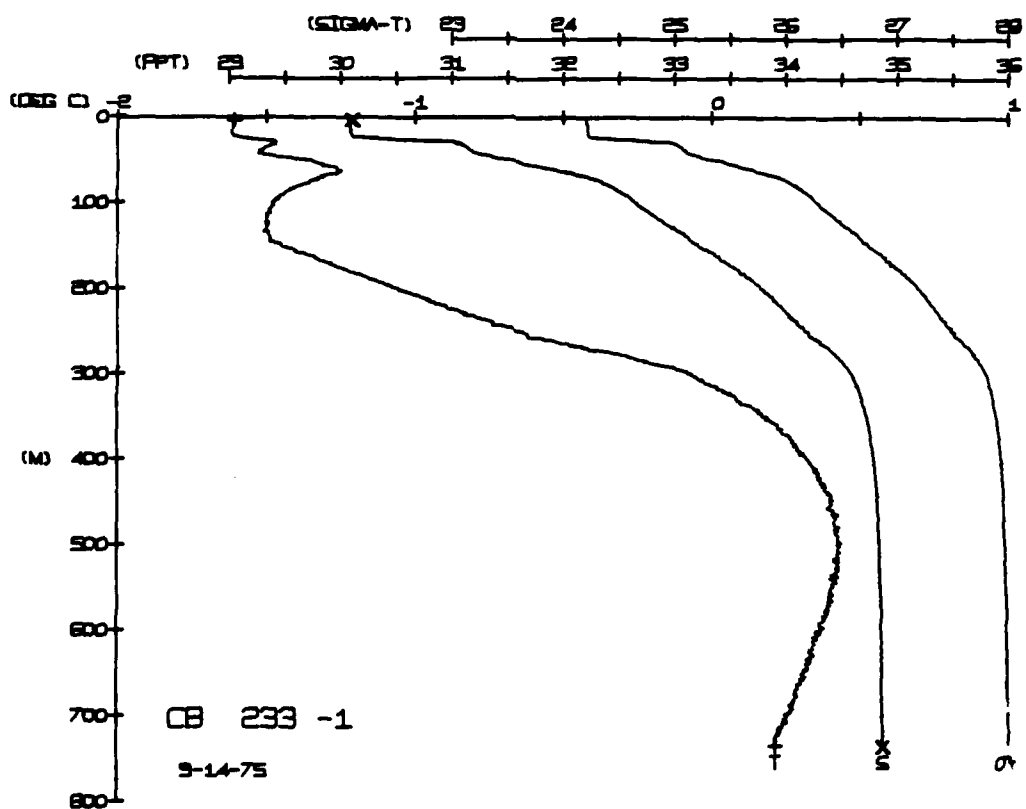
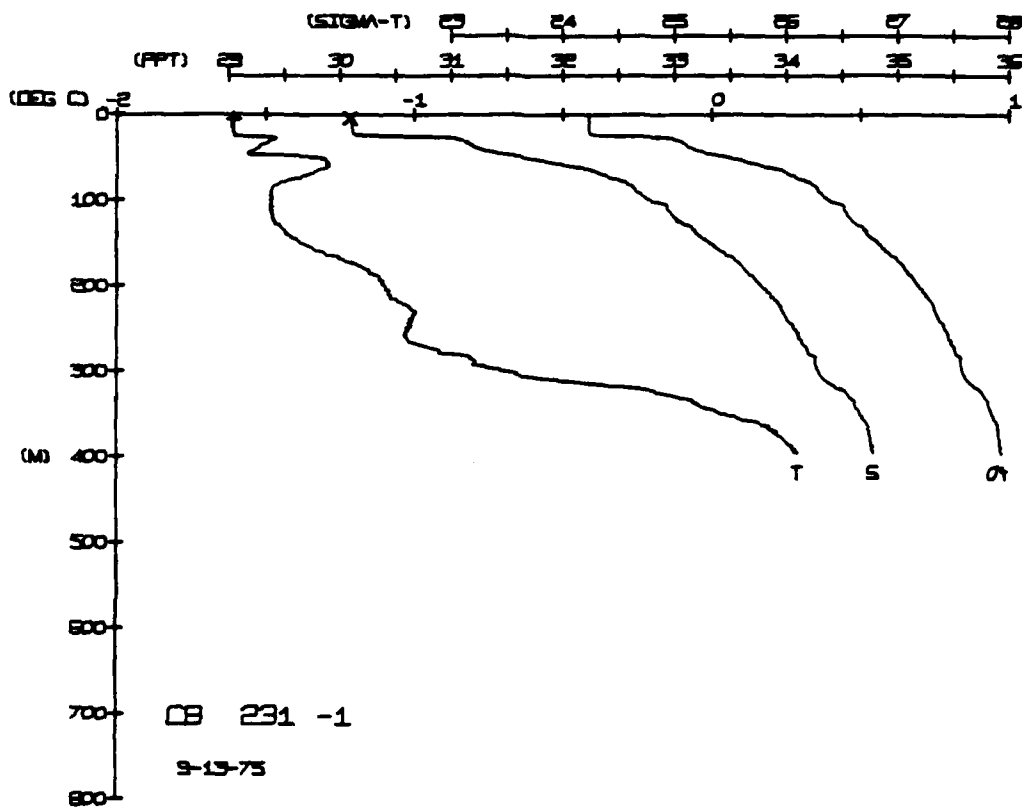




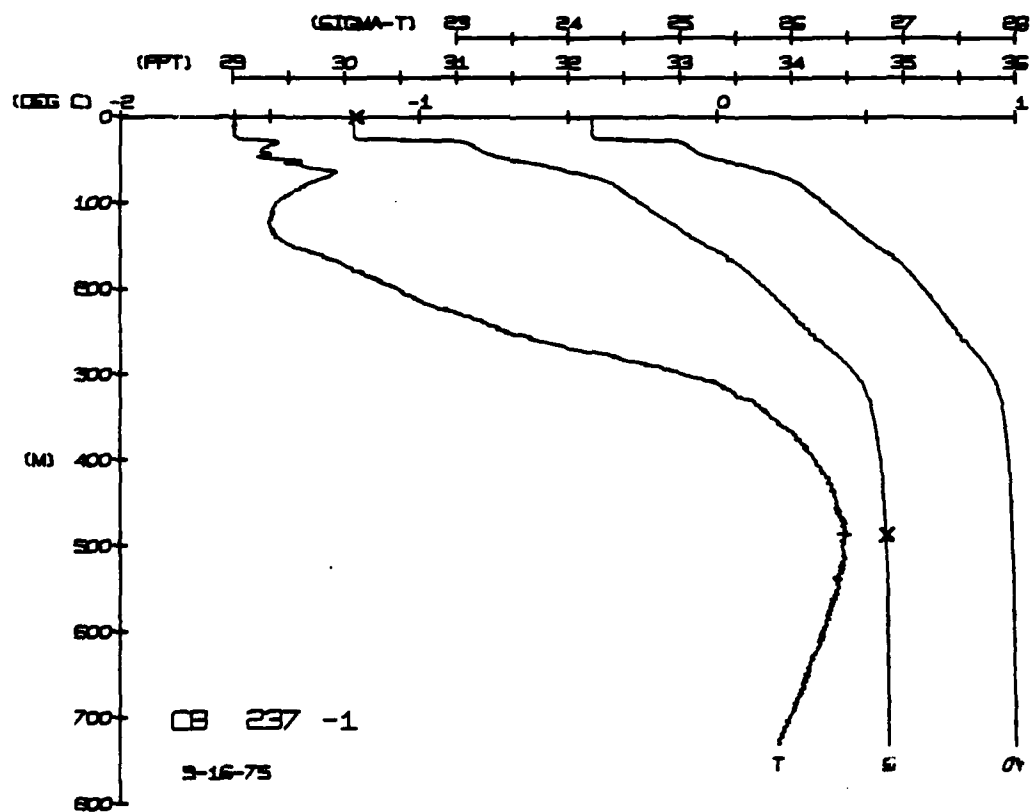
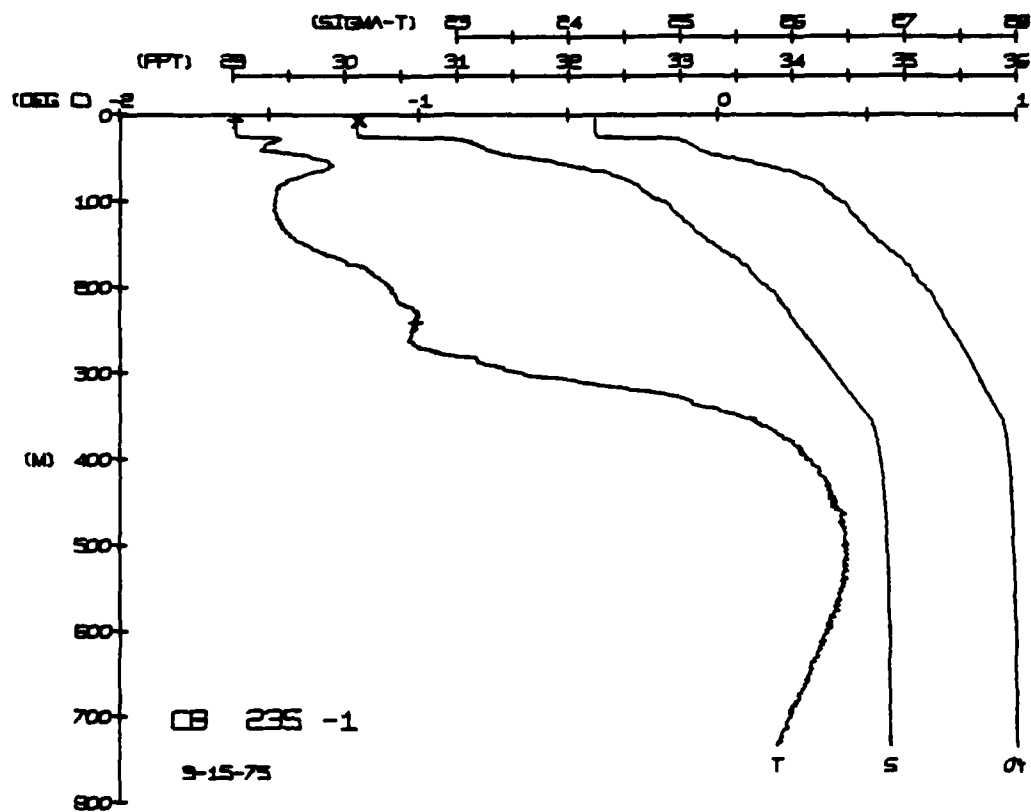




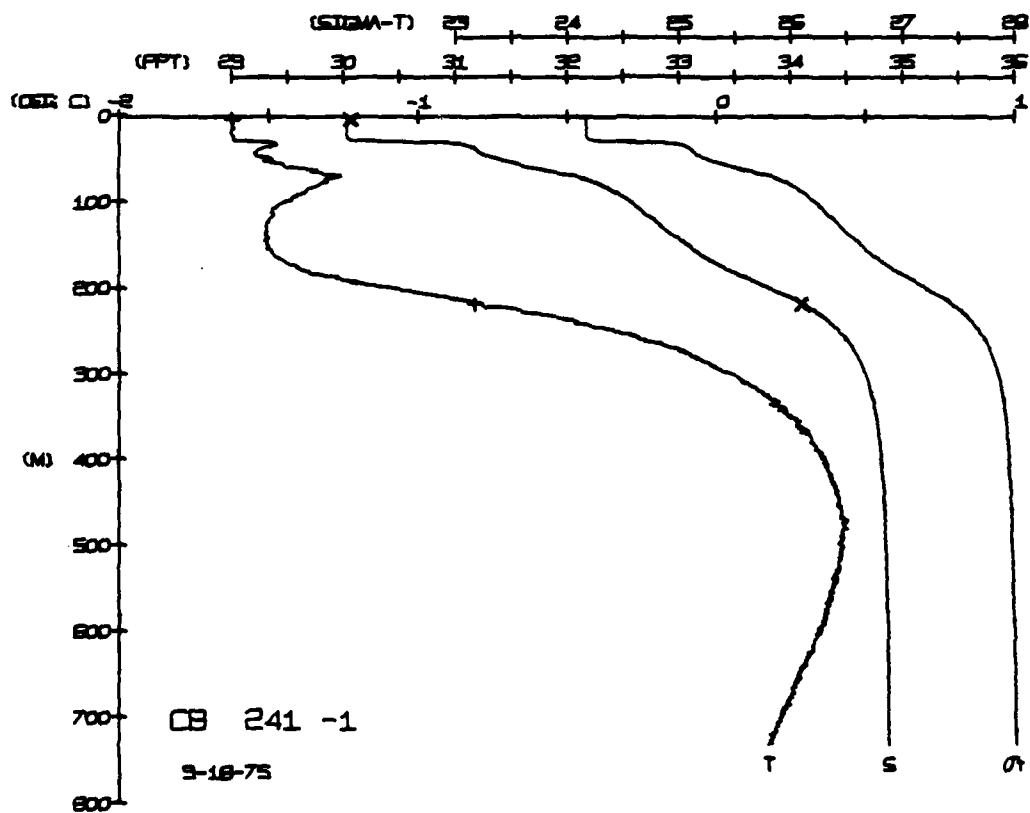
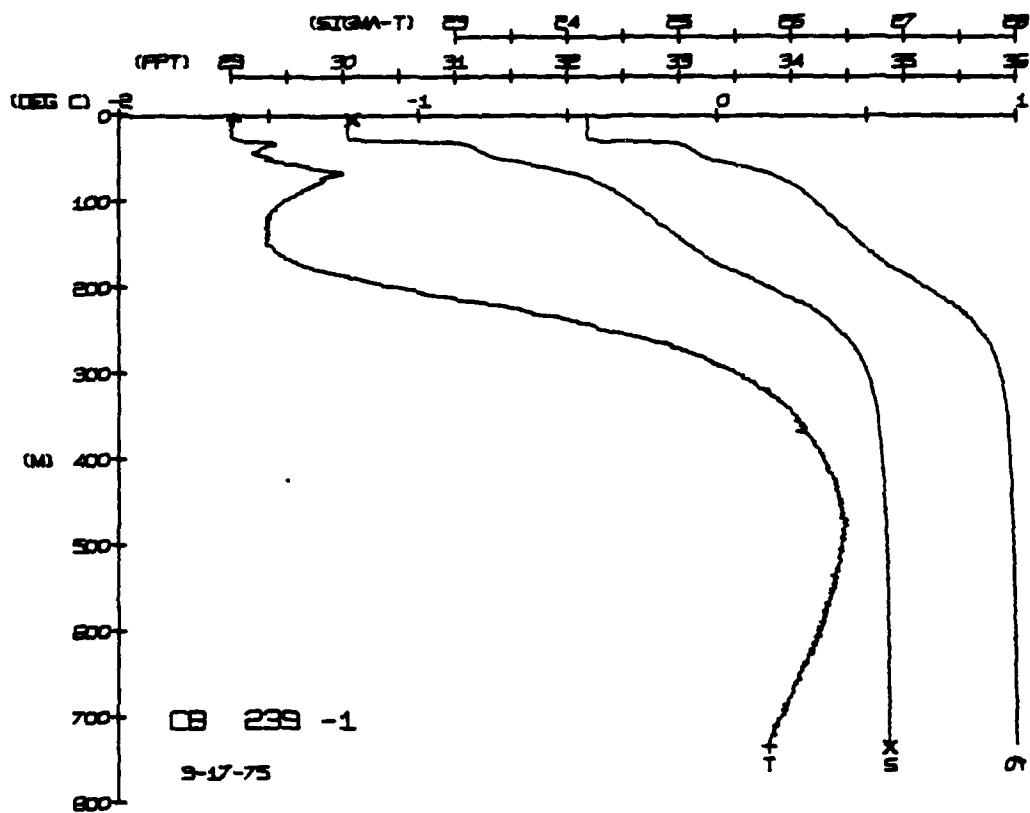






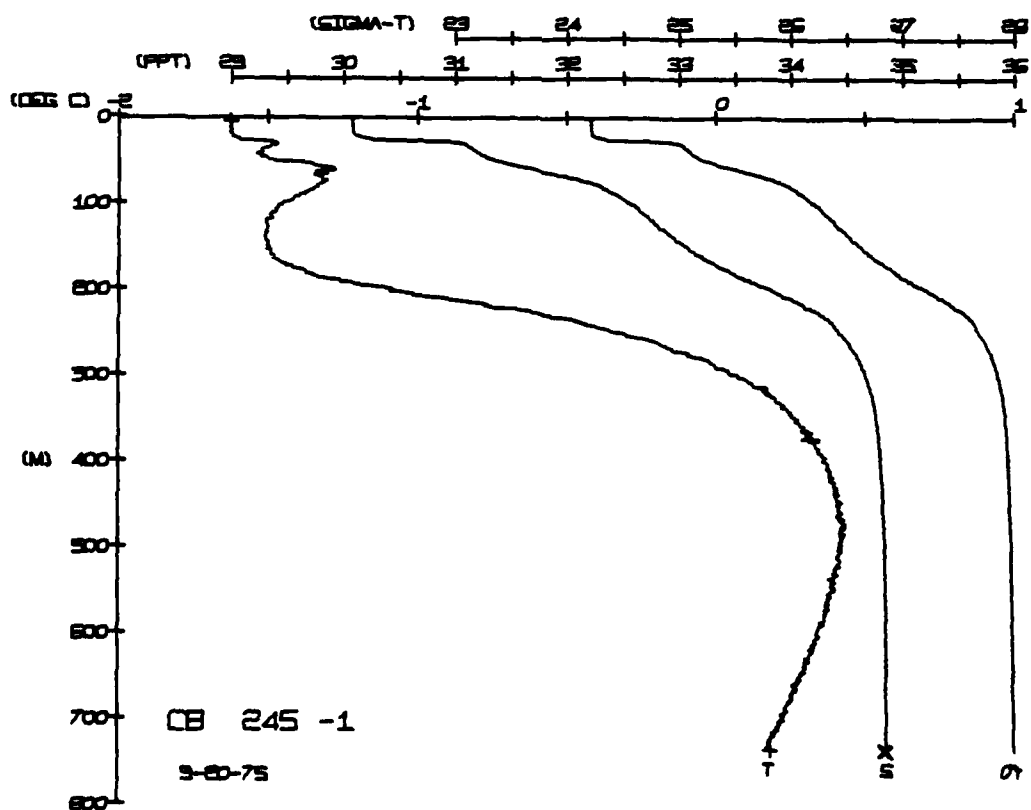
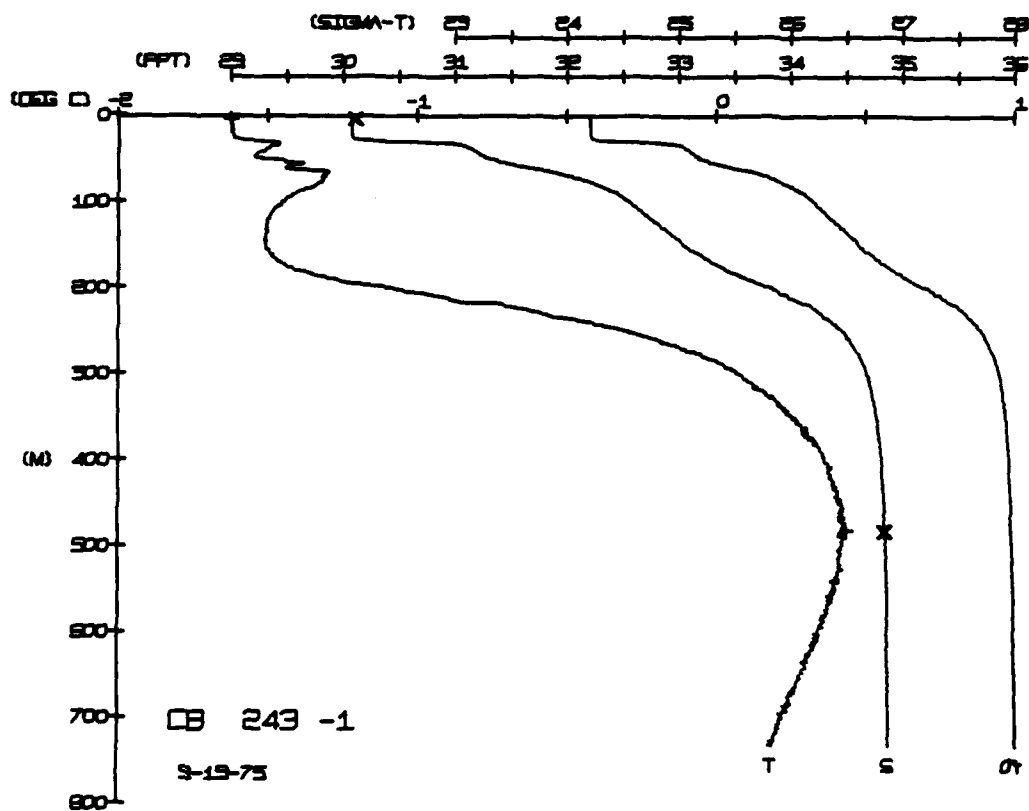




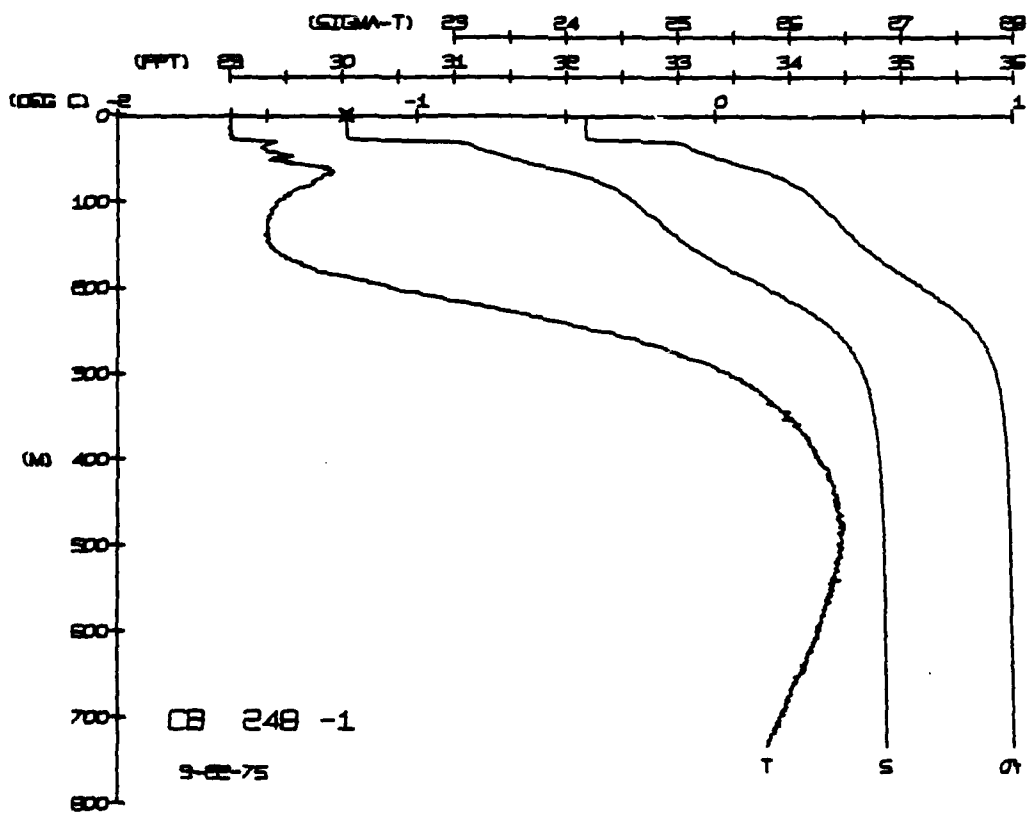
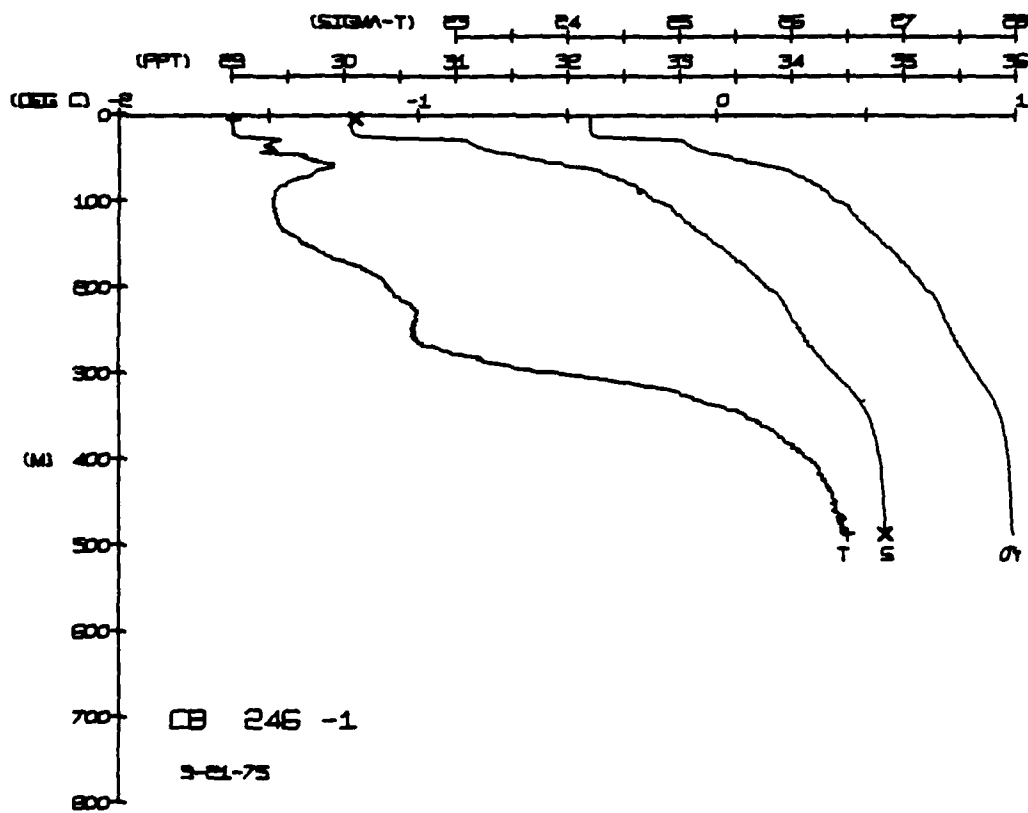




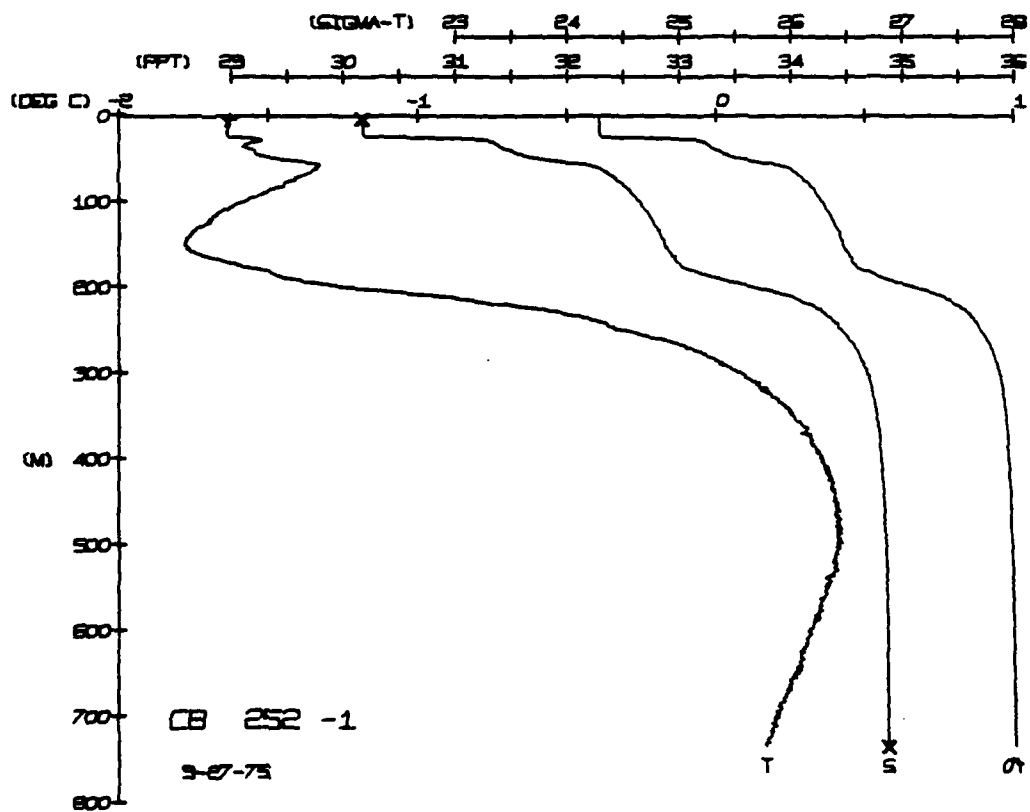
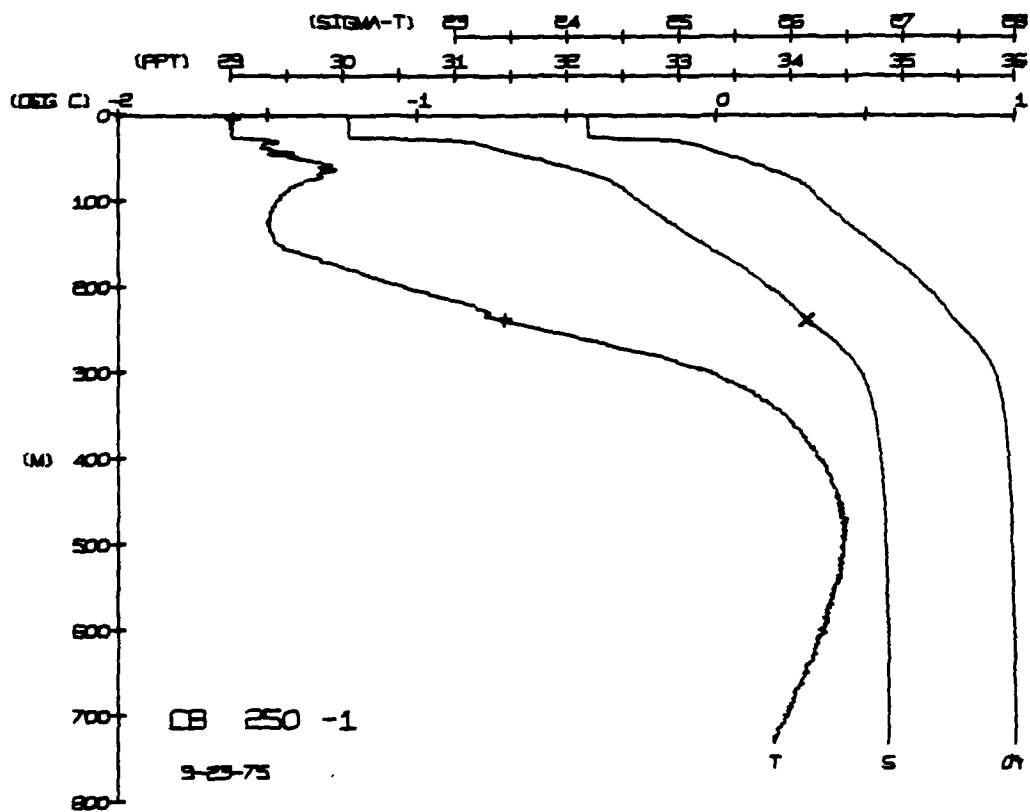




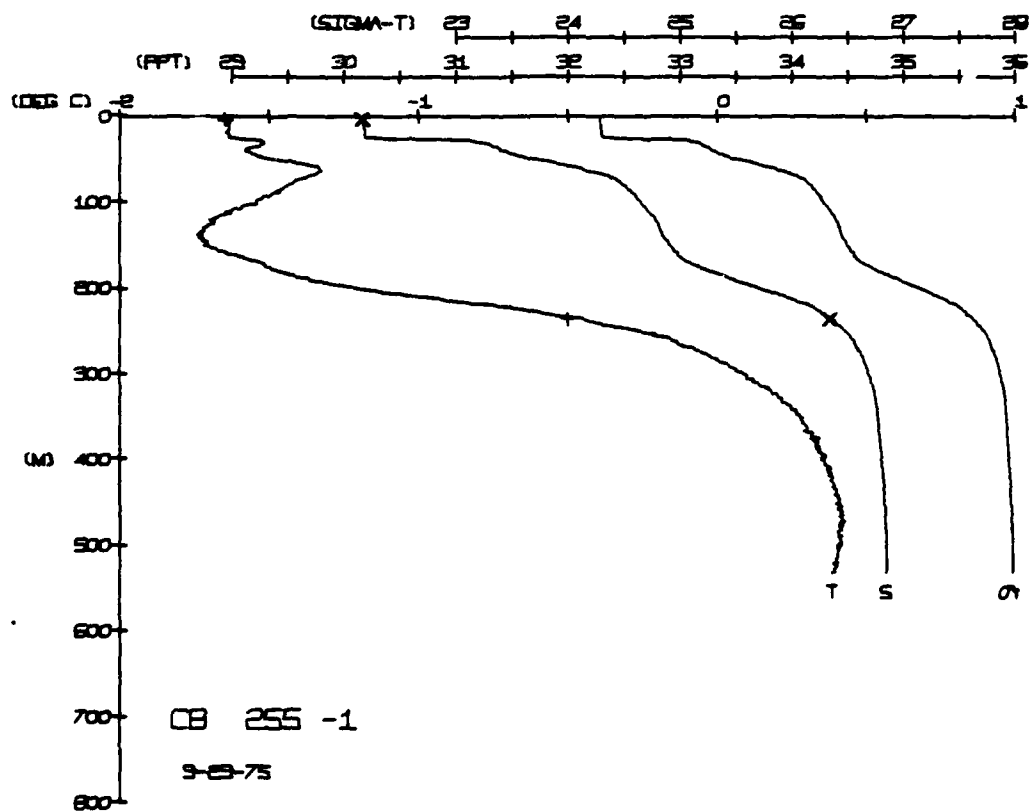
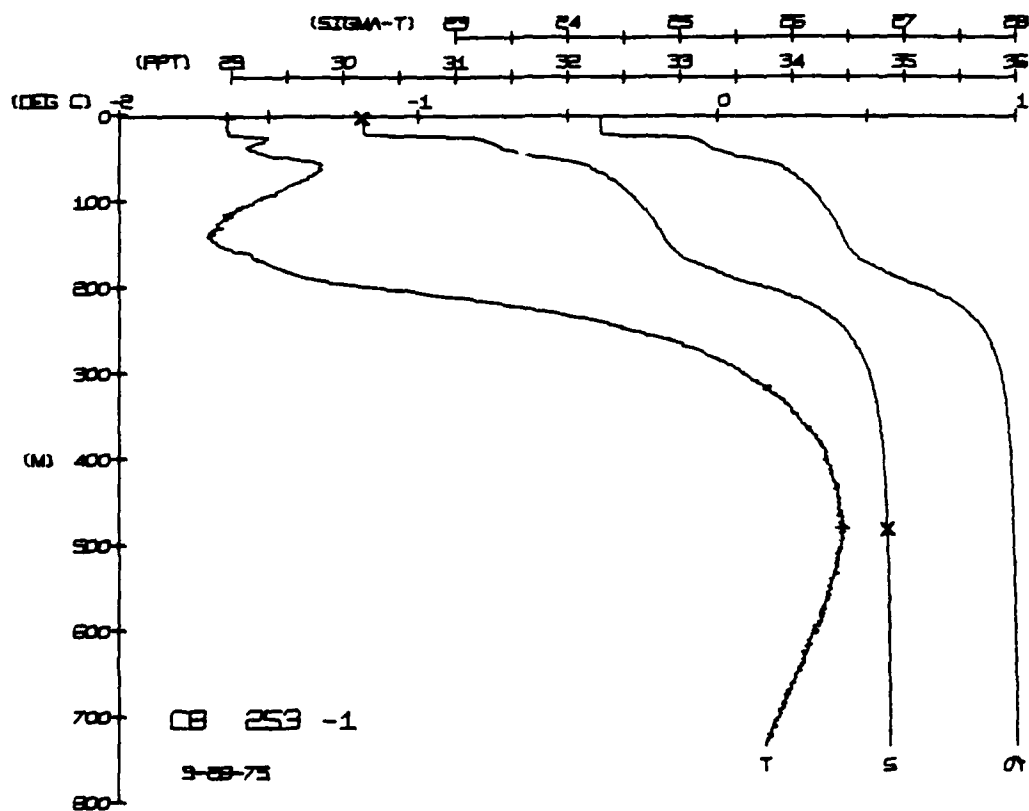












AD-A118 202

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES NY

F/G 8/10

ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)

FEB 80 E BAUER, K HUNKINS, T O MANLEY

N00014-76-C-0004

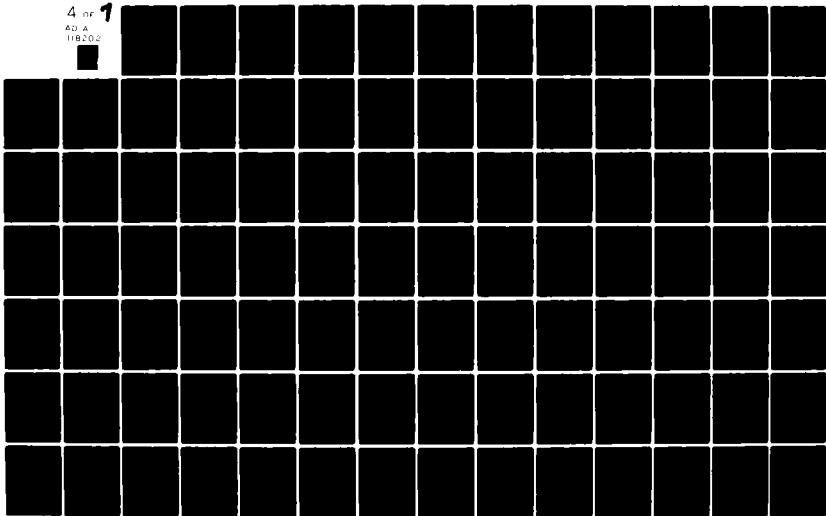
UNCLASSIFIED

LD60-CU-8-80

NL

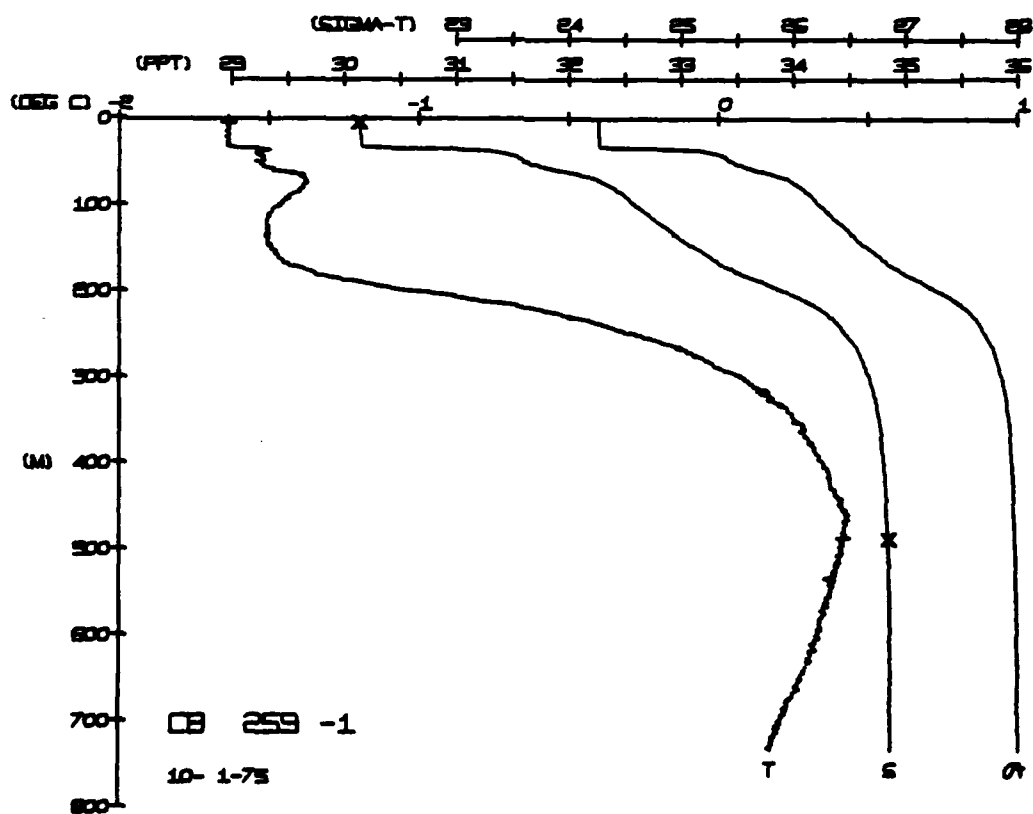
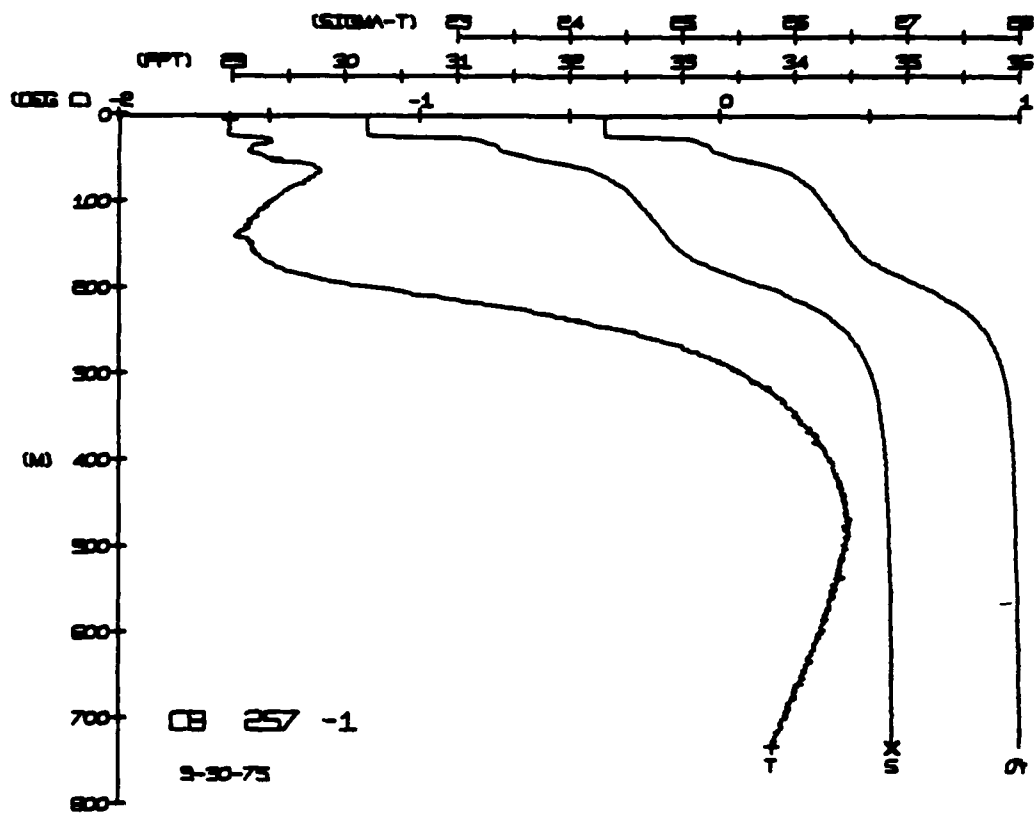
4 of 1

AD A  
118202

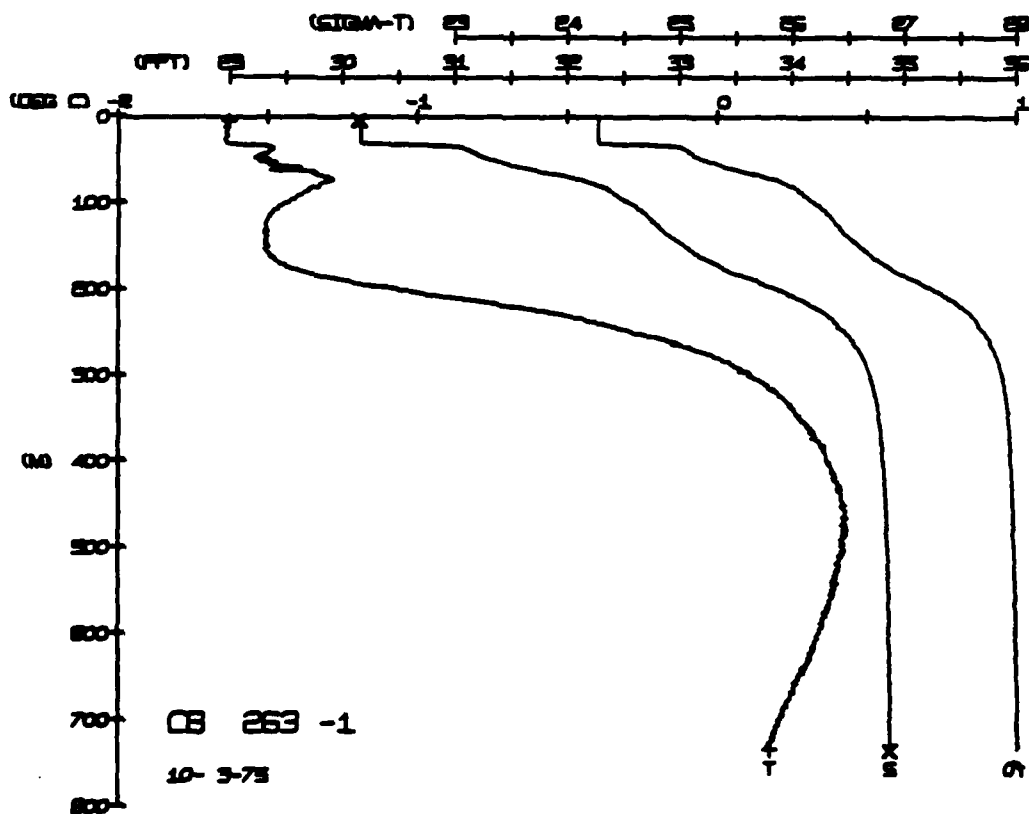
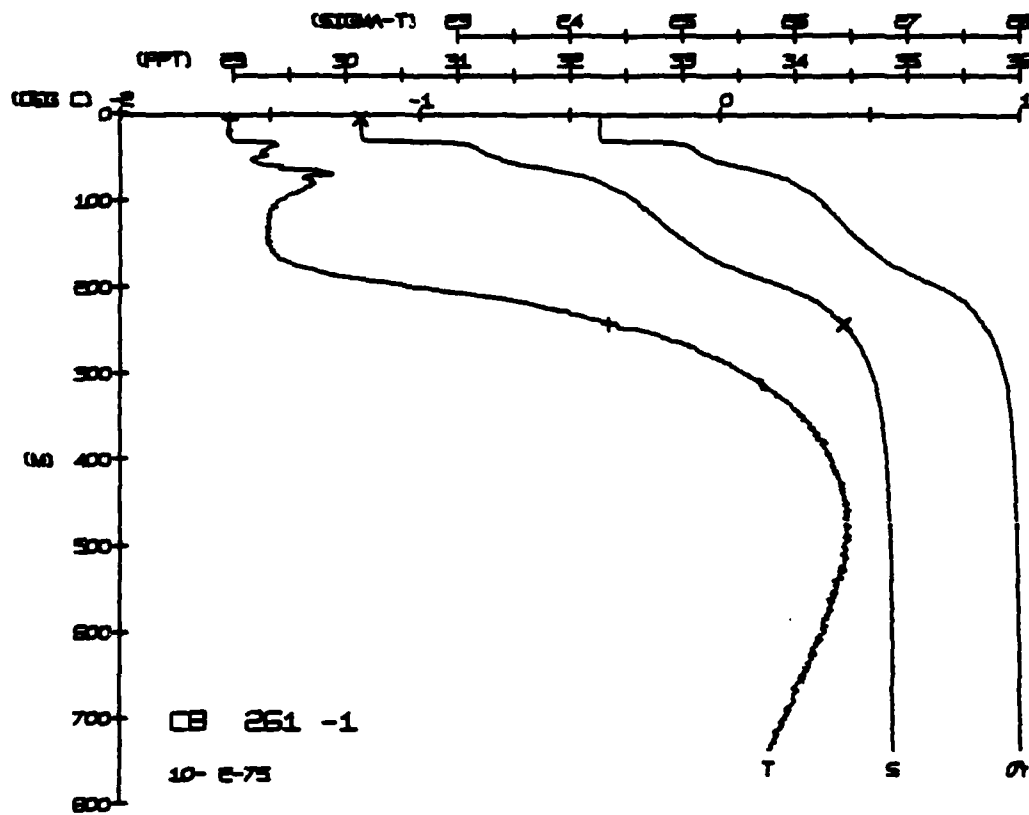




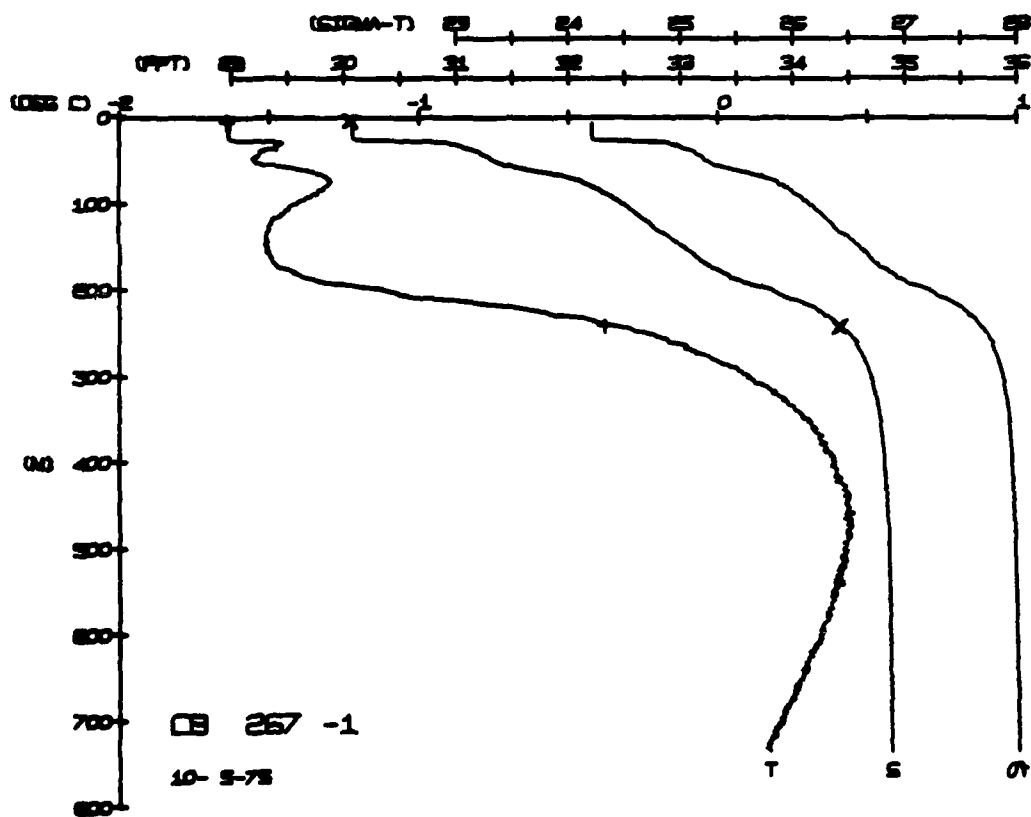
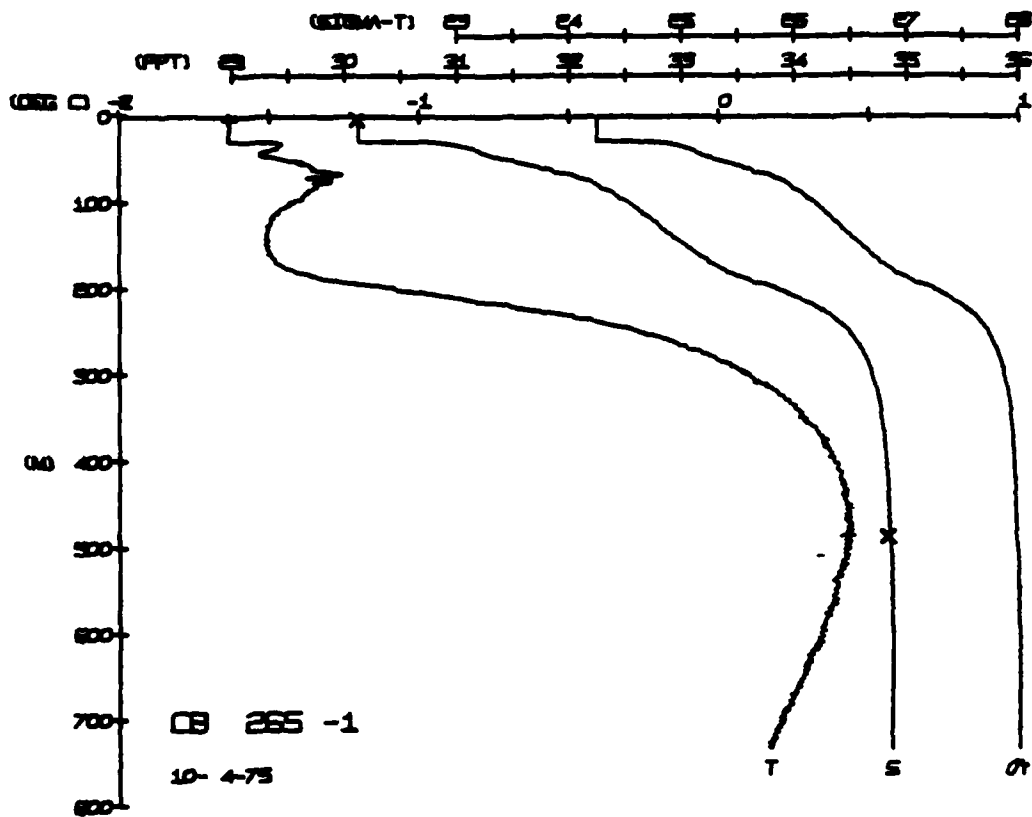




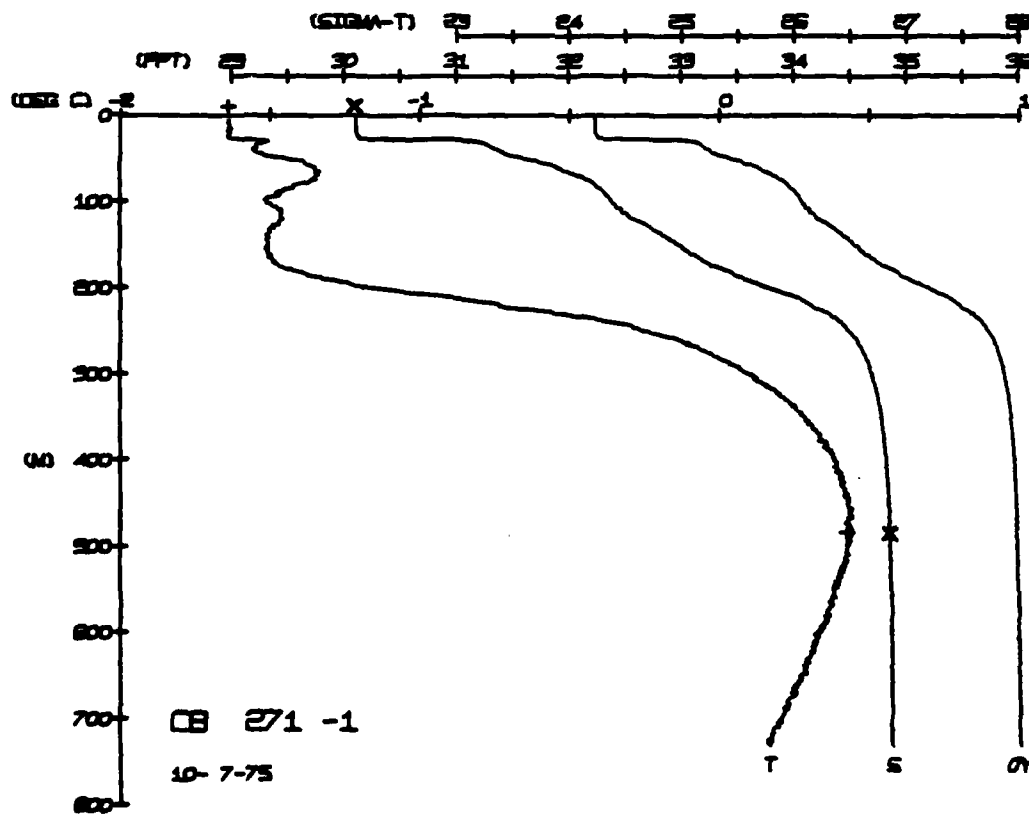
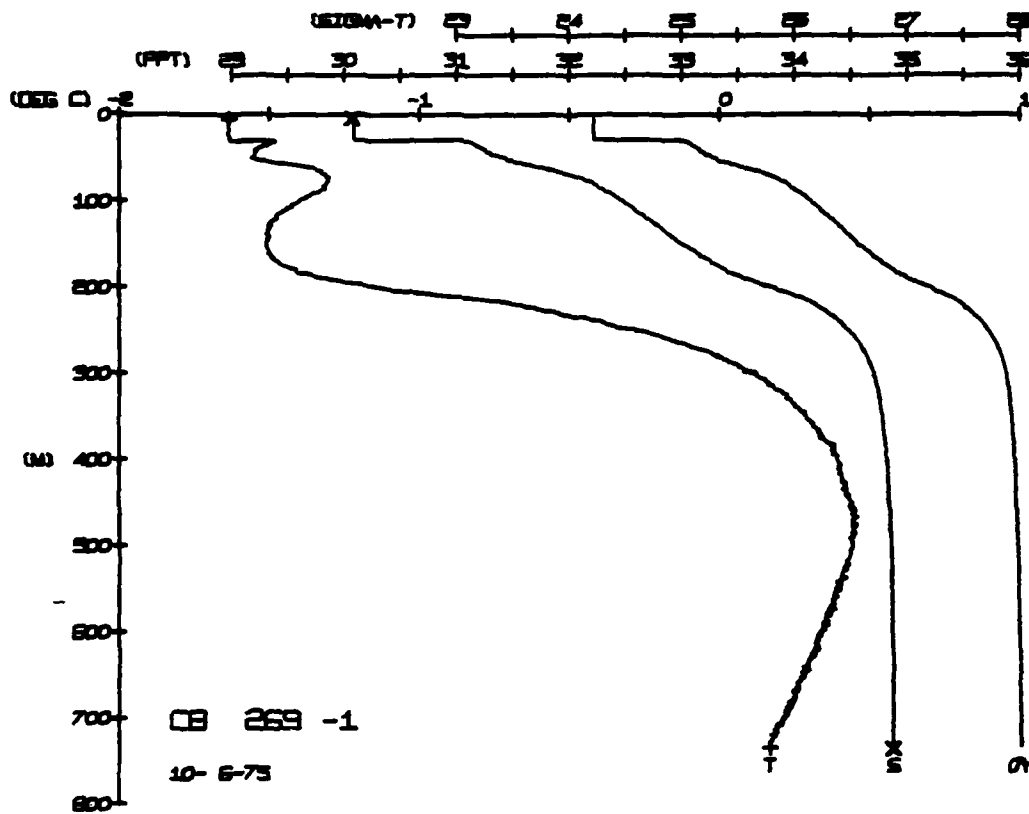












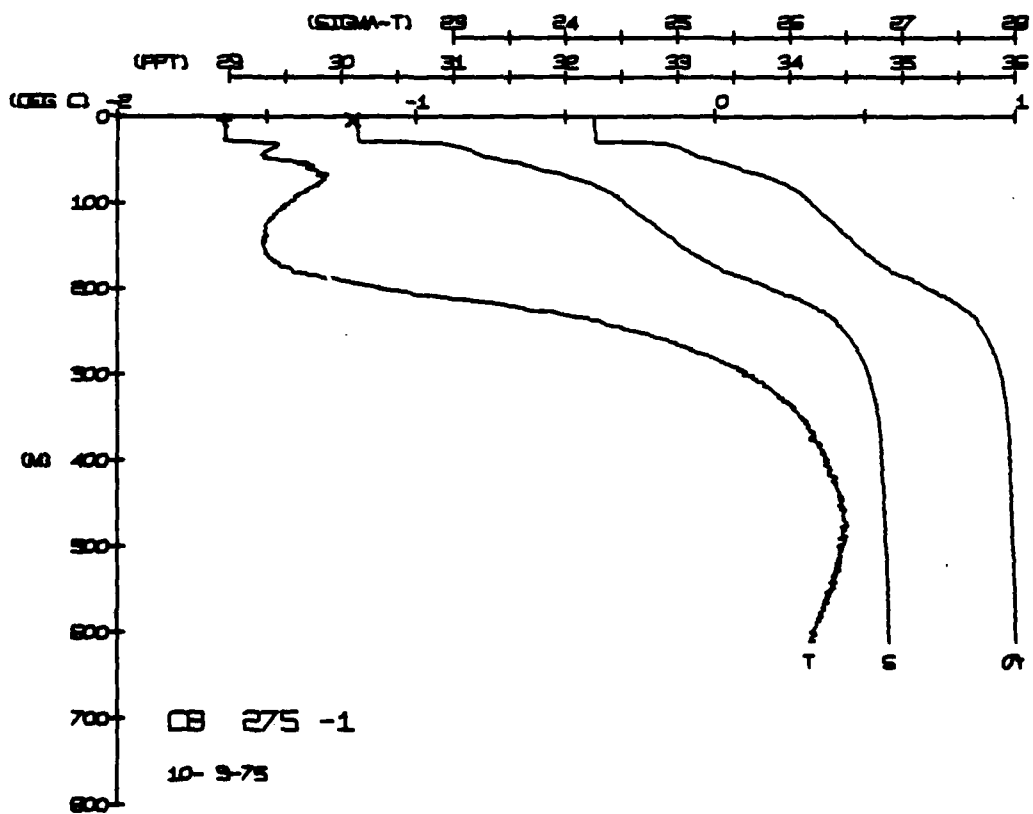
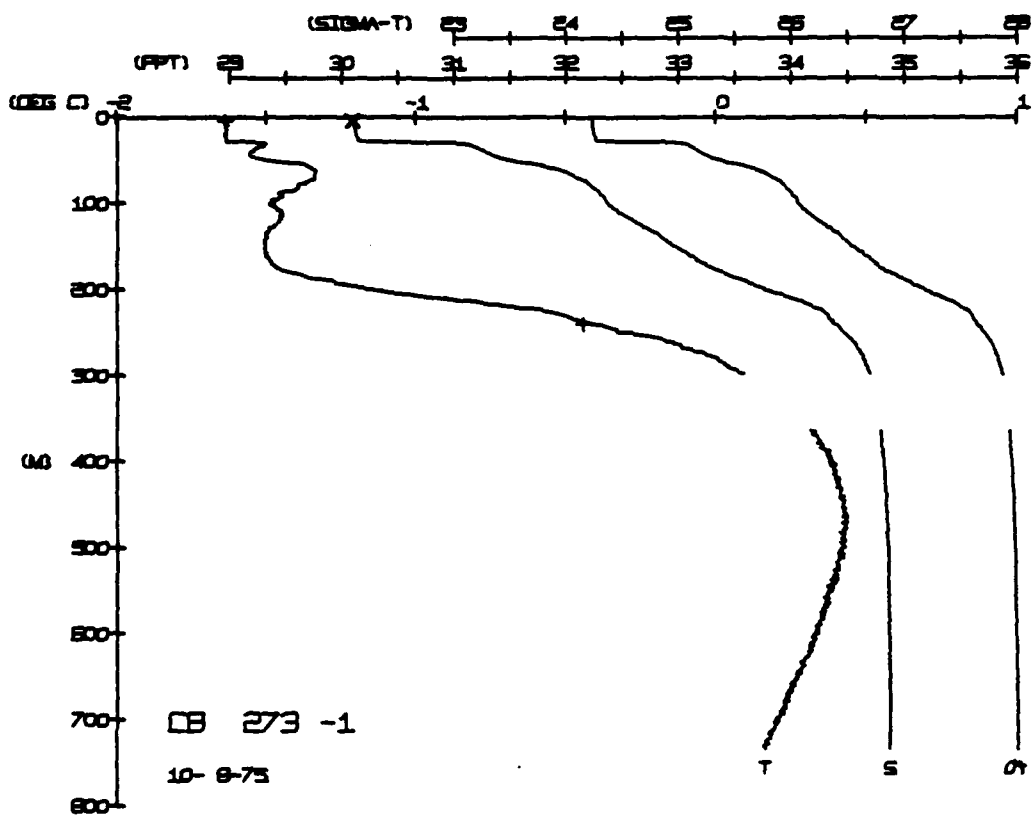


CARIBOU STATION 275(1) CTD 9/OCT/1975 1015 GMT CODE = 3  
LAT = 73.3433 LONG = 140.2100W LTER = 1 LGER = 2  
AIR TEMP = -19.1 BAROM = 1022.4 WIND = 258.0 SPEED = 34.0

[illegible]

ROT NUM	DEPTH	TEMP.	SALIN
1	4.4	-1.64	30.10

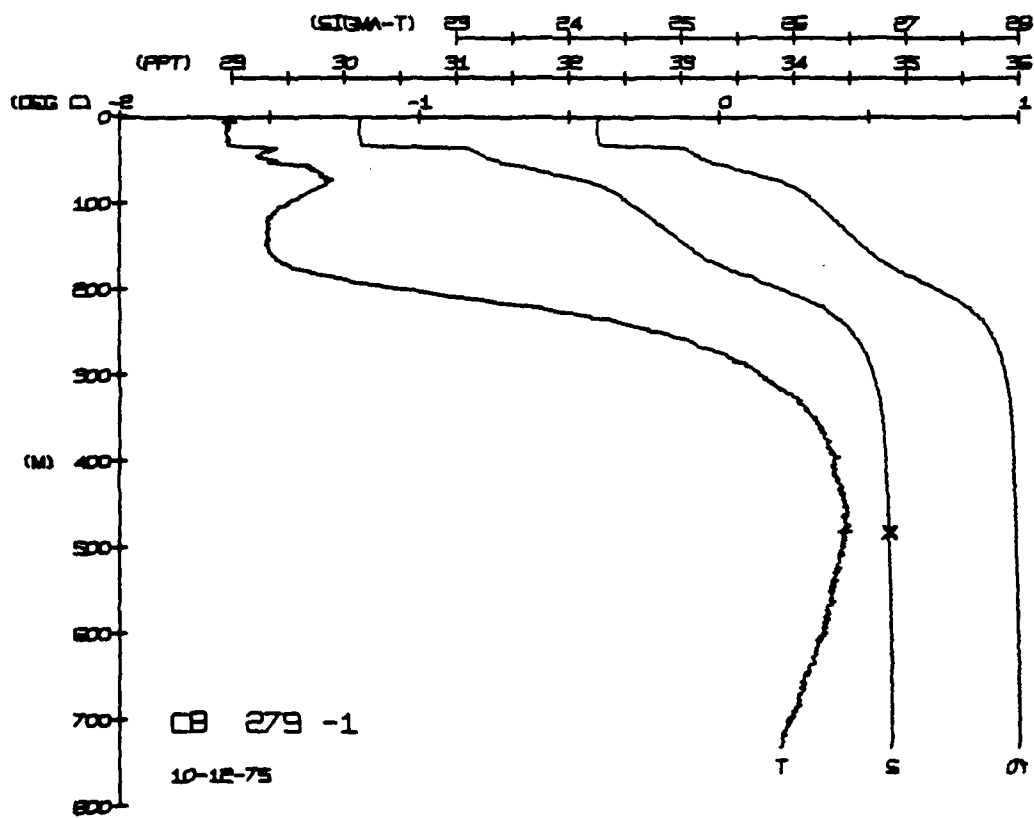
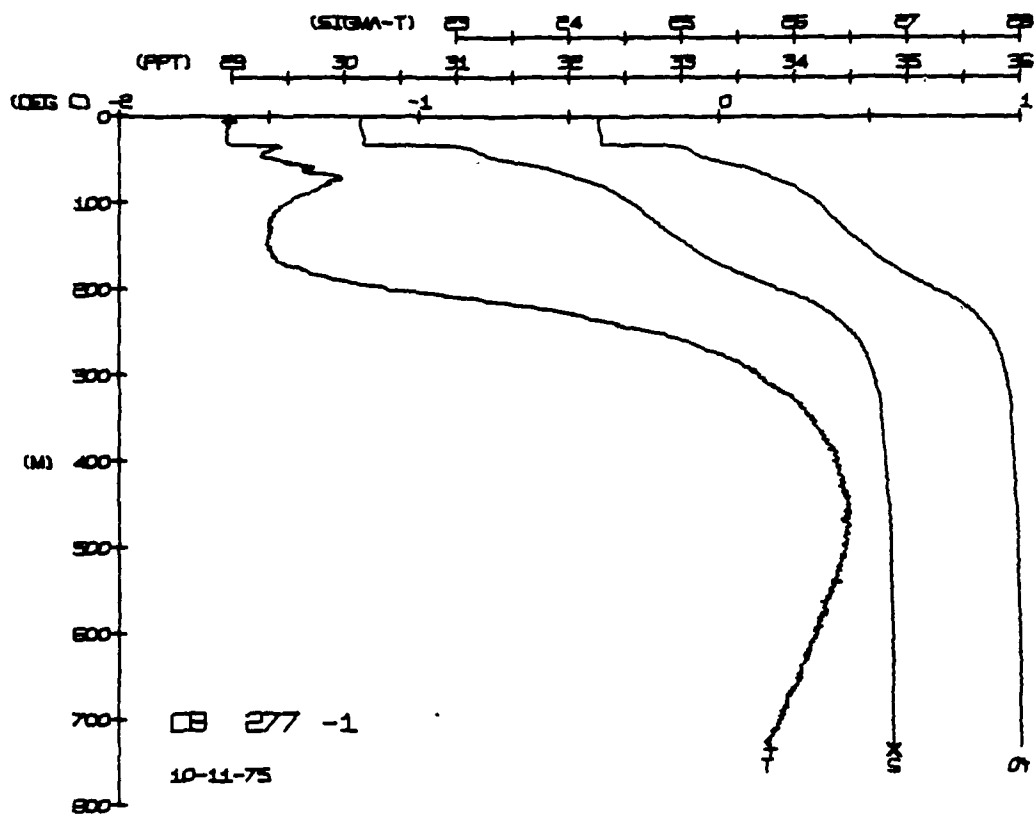
	DEPTH	TEMP.	SALIN
1 BUT NUM = 1	4.3	-1.64	30.10
2 BUT NUM = 2	241.1	-0.44	



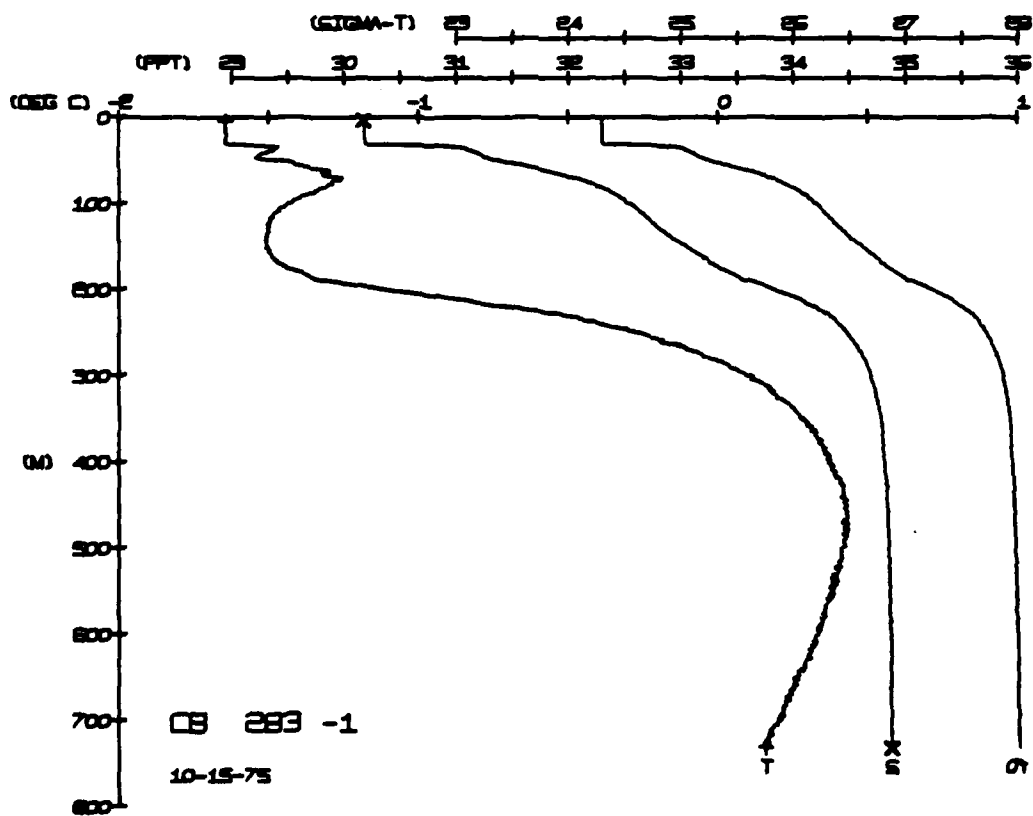
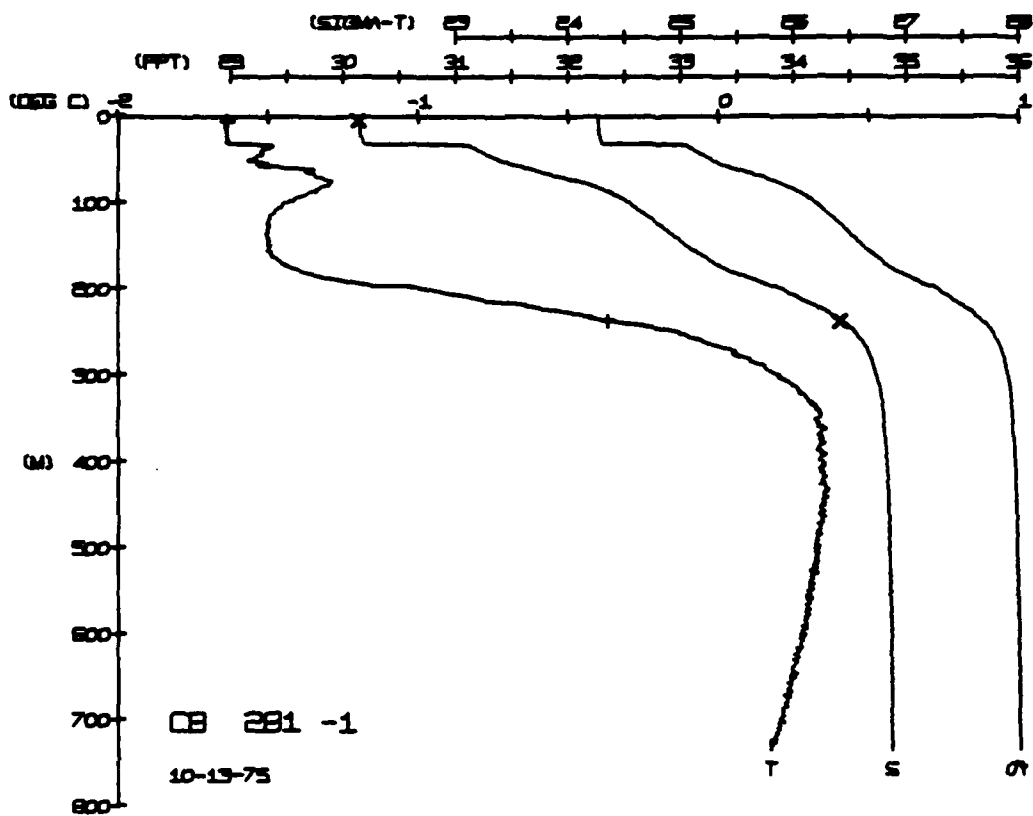
CARIBOU STATION 279(1) CID 12/OCT/1975 1814 GMT CODE = 3  
LAT = 73.3003N LMG = 139.9647W LTEN = 1 LGER = 2  
AIR TEMP = -19.6 BARUM = 1013.5 WIND = 103.6 SPFED = 35.6

[illegible]

DEPTH	TEMP.	SALIN
5.2	-1.63	
481.6	0.42	34.85



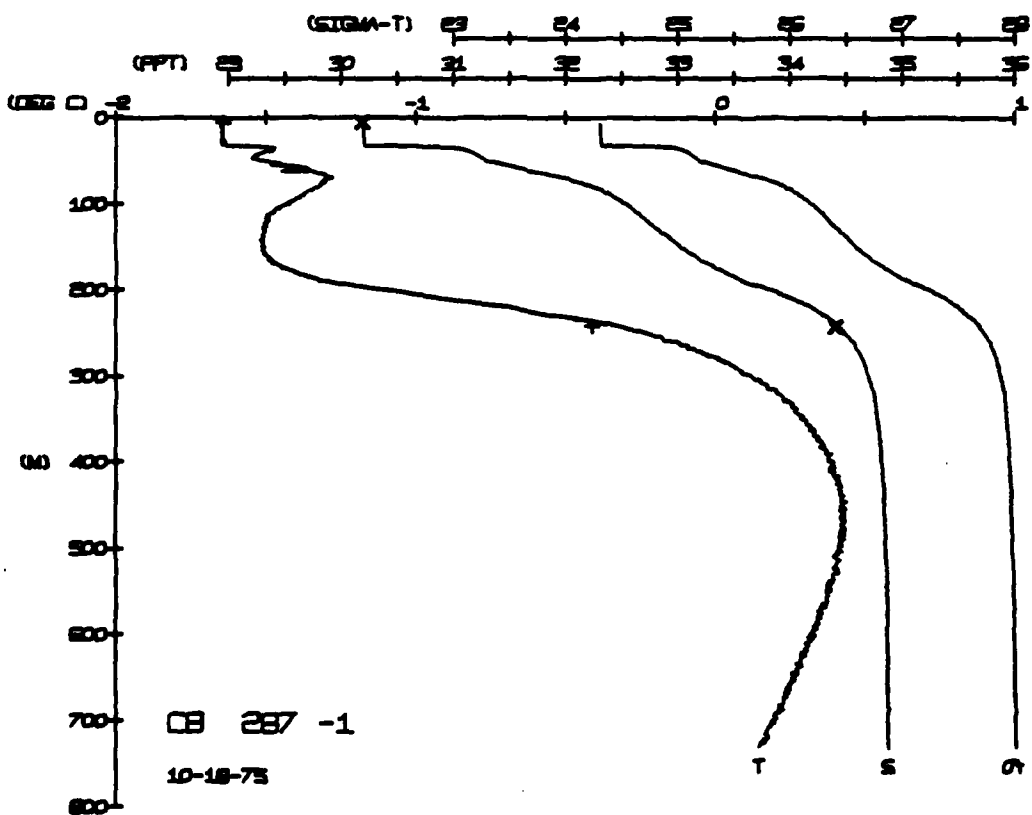
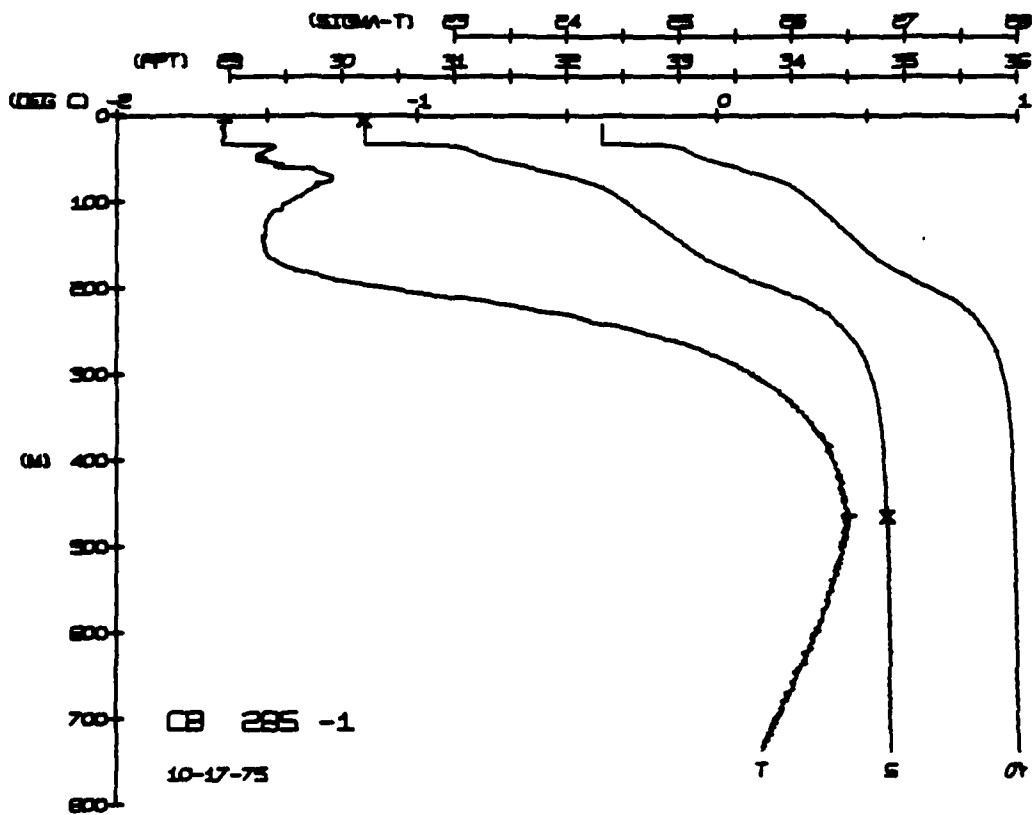




CARIBOU STATION 287(1) CTD 18/OCT/1975 1820 GMT CODE = 3  
LAT = 73.2503N LNG = 140.9223W I.TEM = 1 LGEM = 1  
AIR TEMP = -25.1 BARUM = 1008.5 WIND = 46.8 SPFFD = 46.5

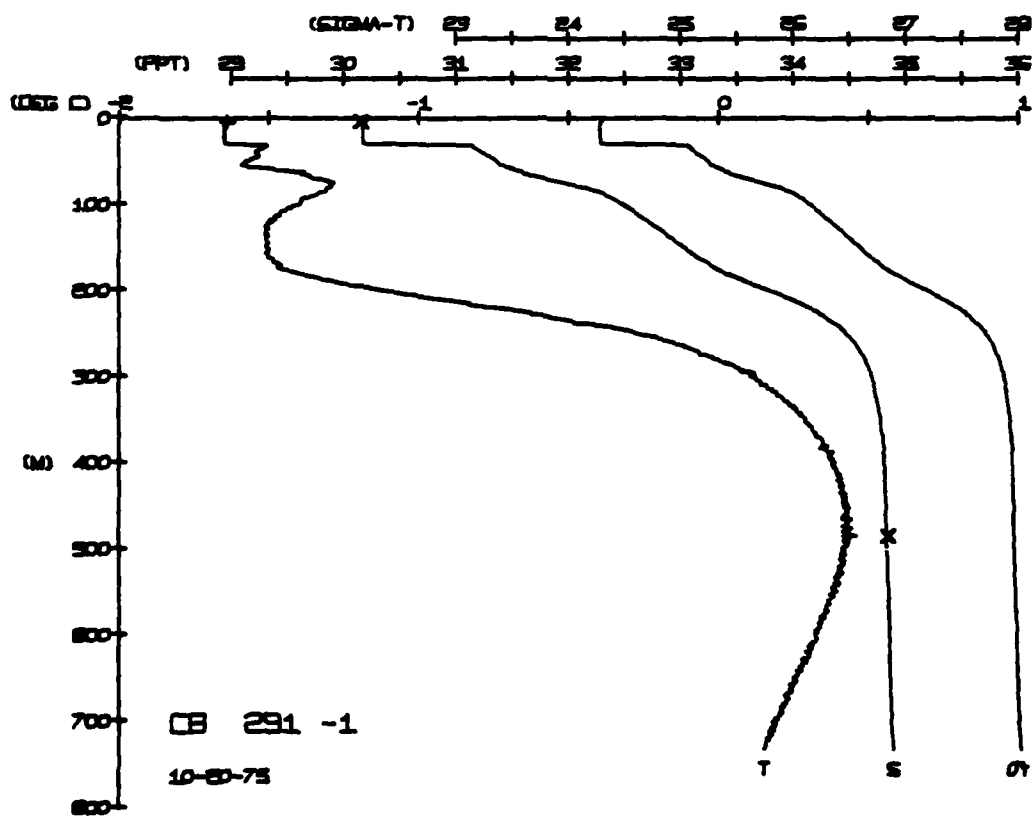
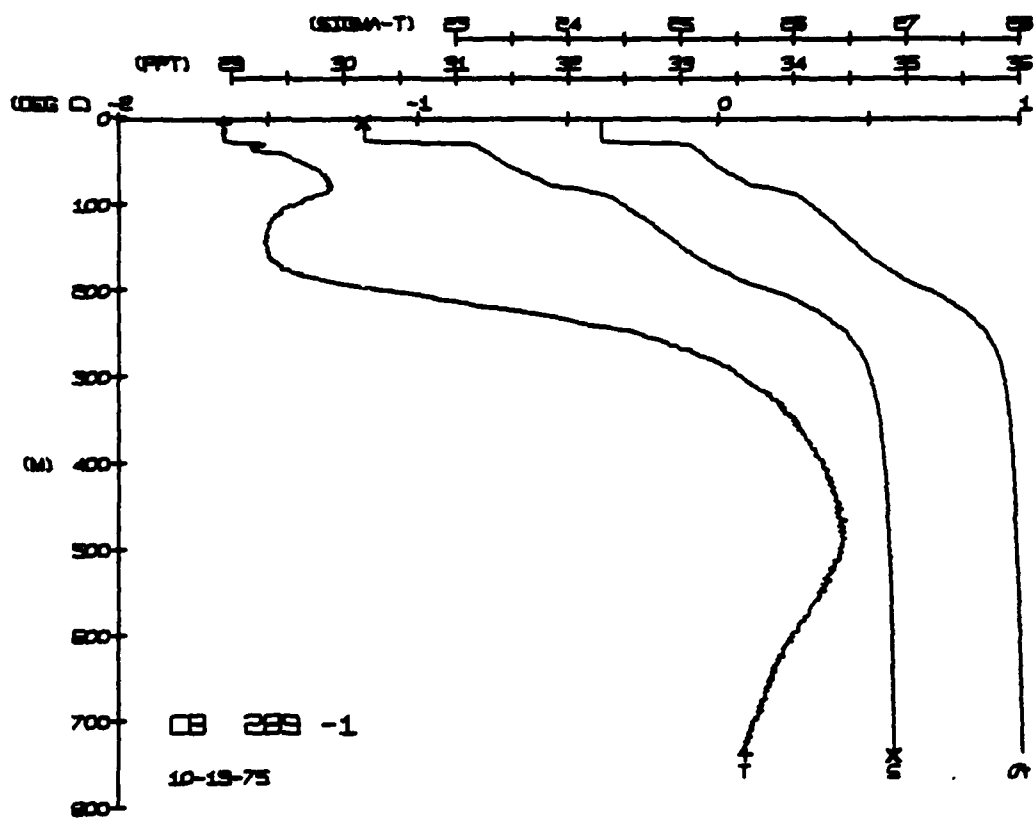
[illegible]

	DEPTH	TEMP.	SALIN.
BOT NUM = 1	4.6	-1.64	30.18
BOT NUM = 2	242.8	-0.41	34.41

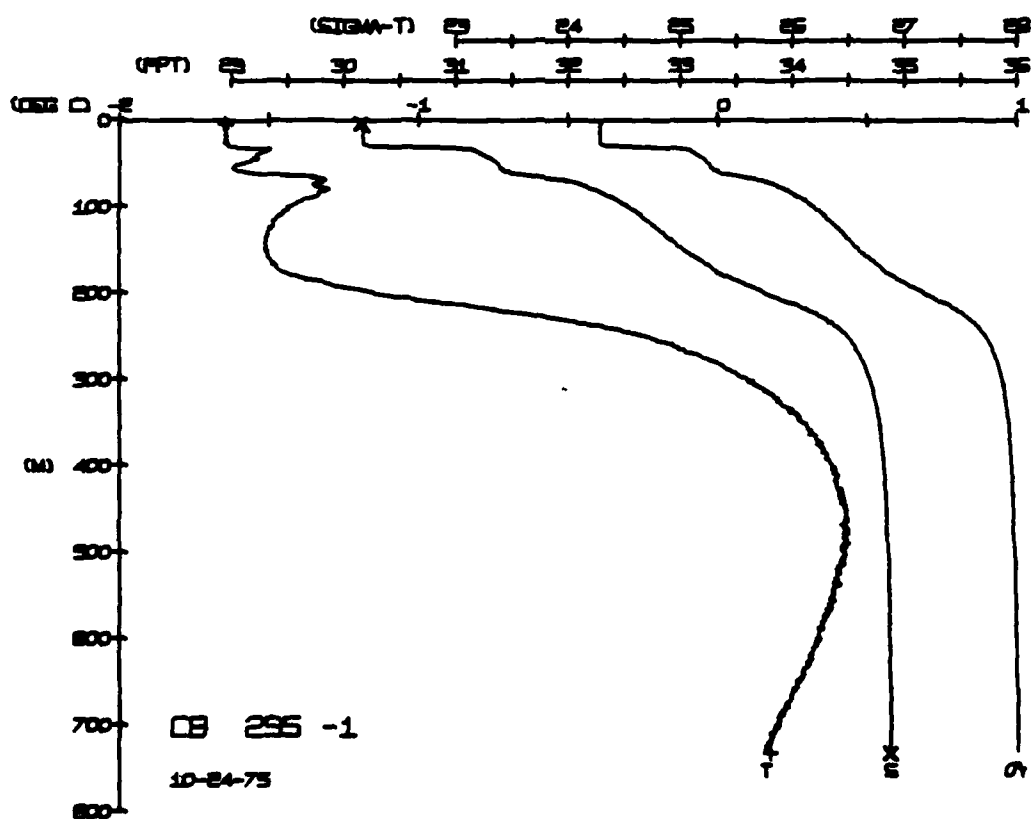
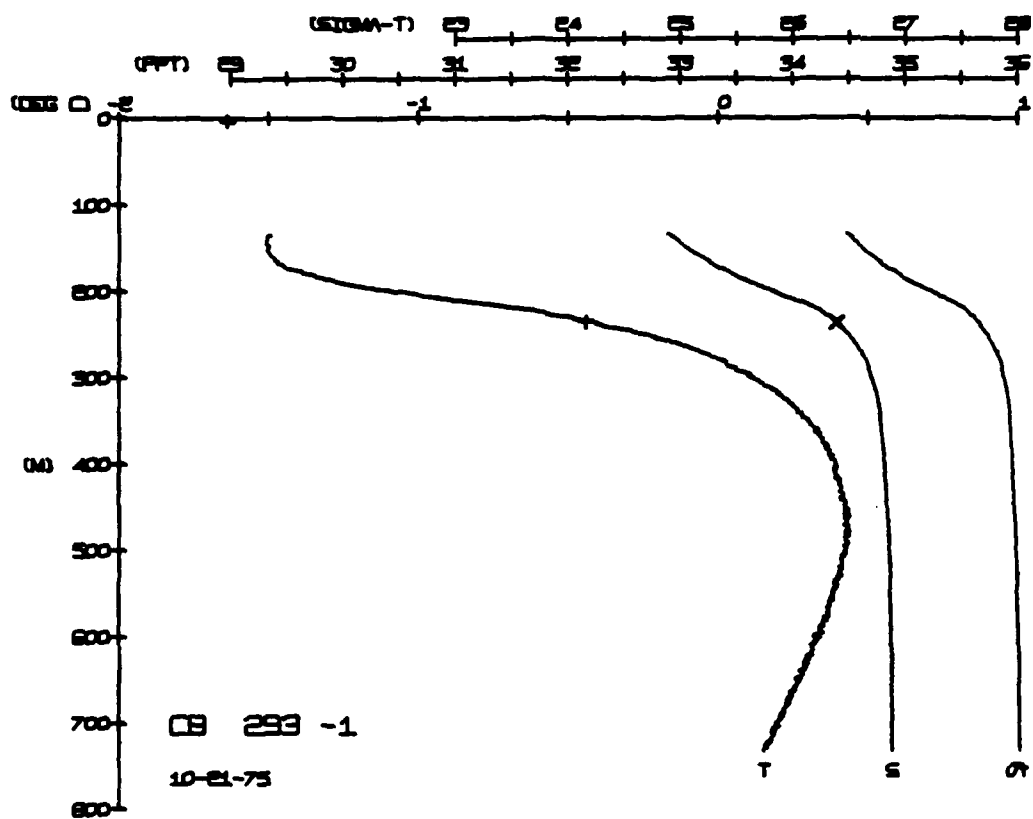




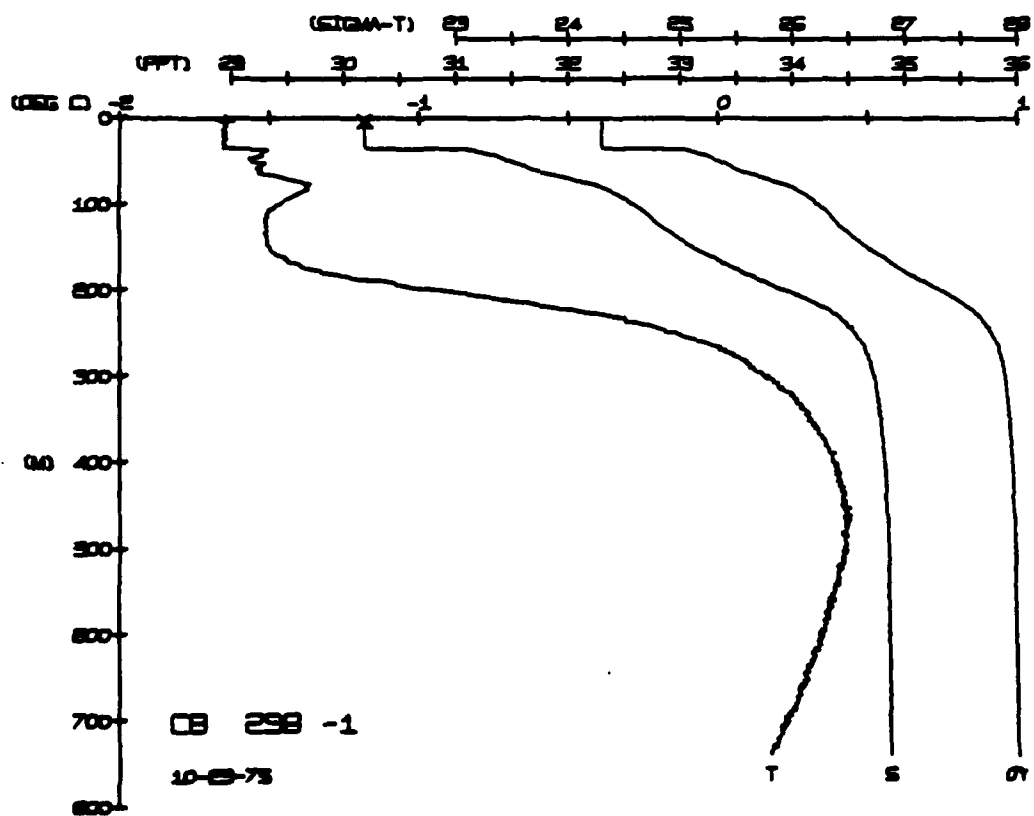
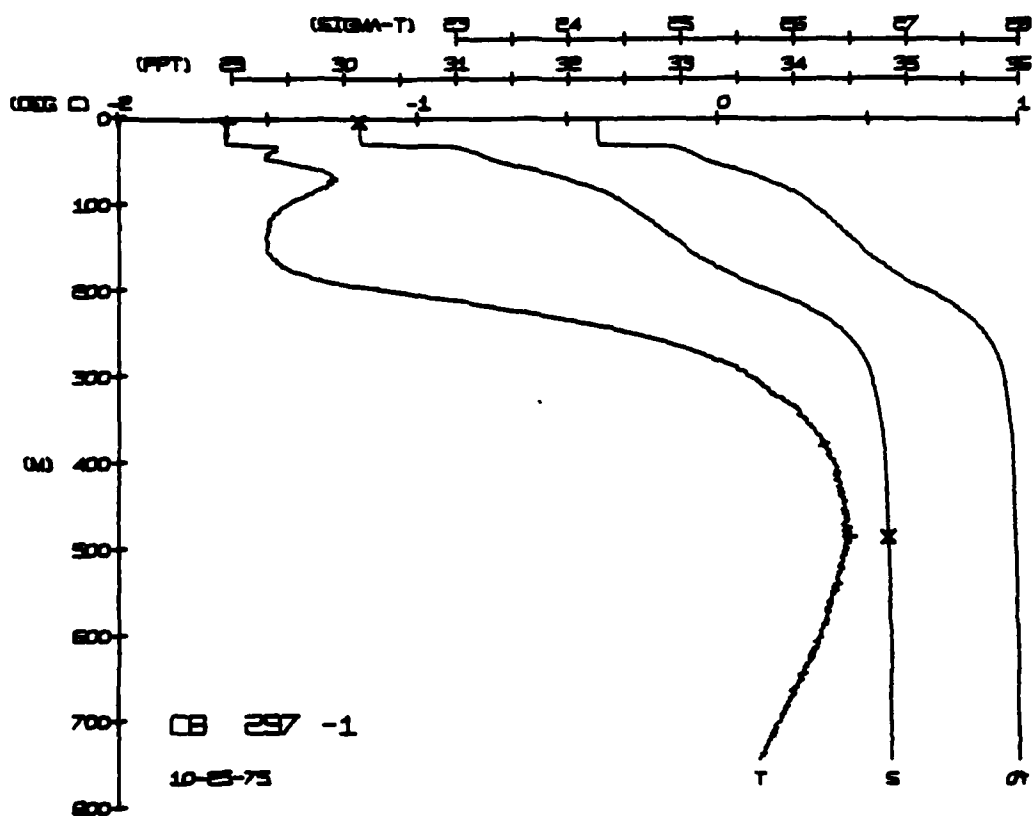




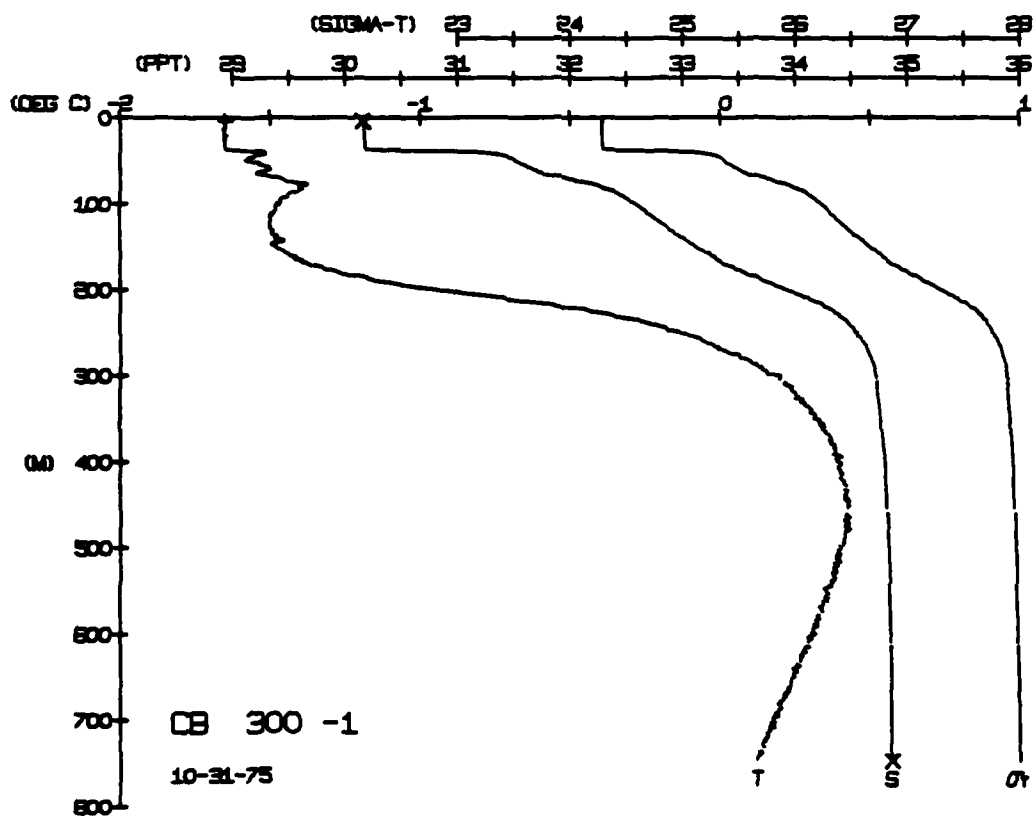
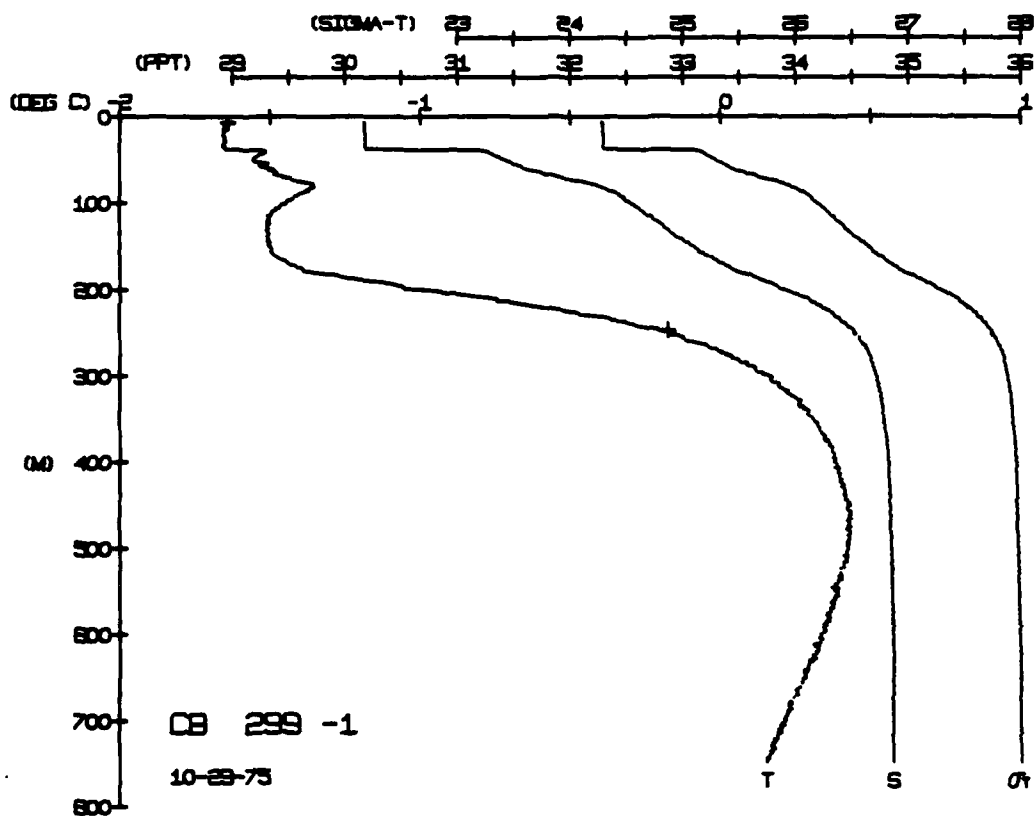






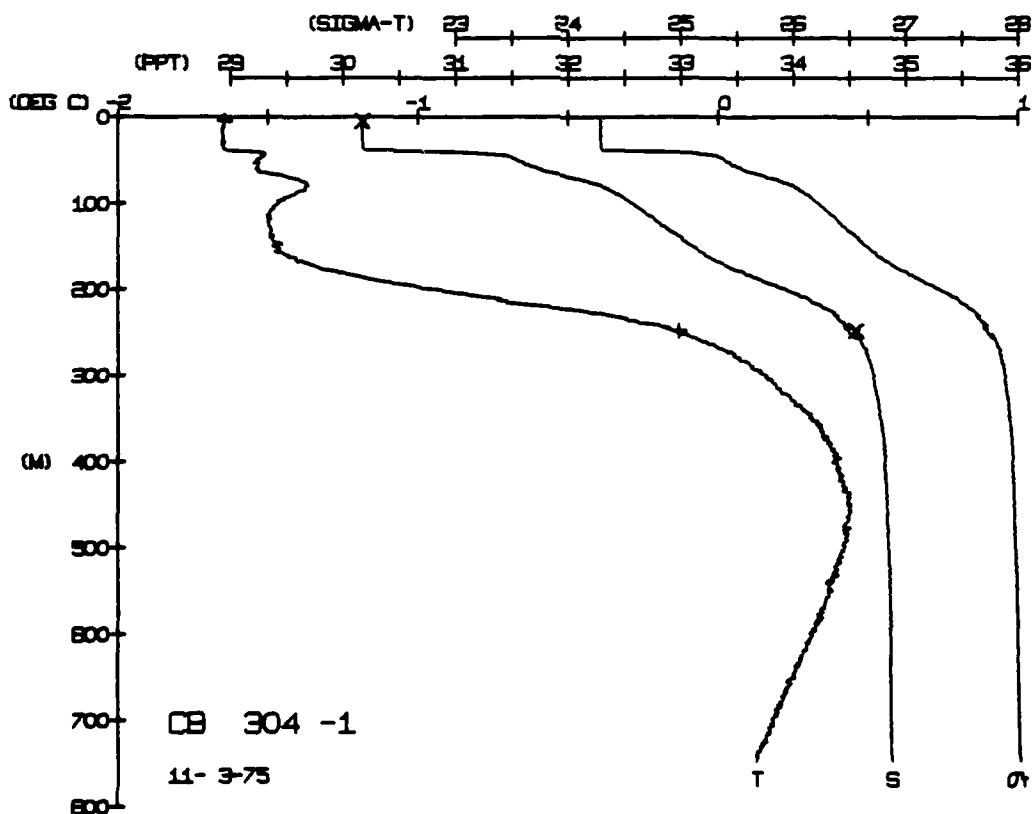
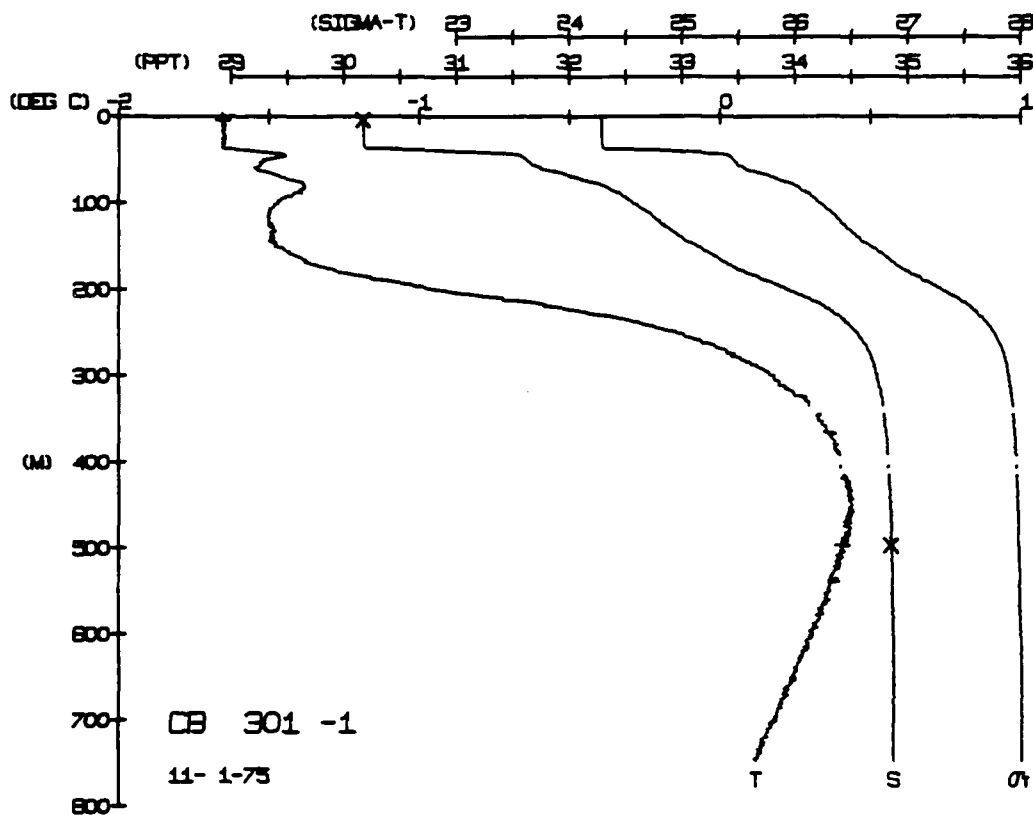




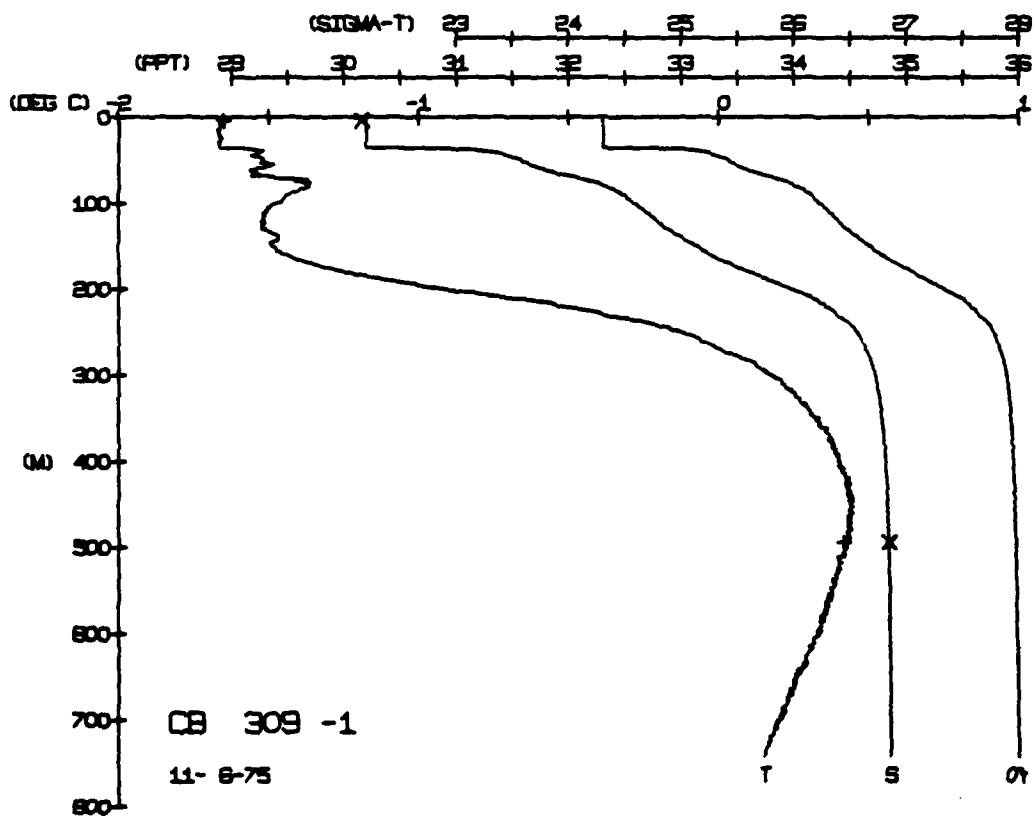
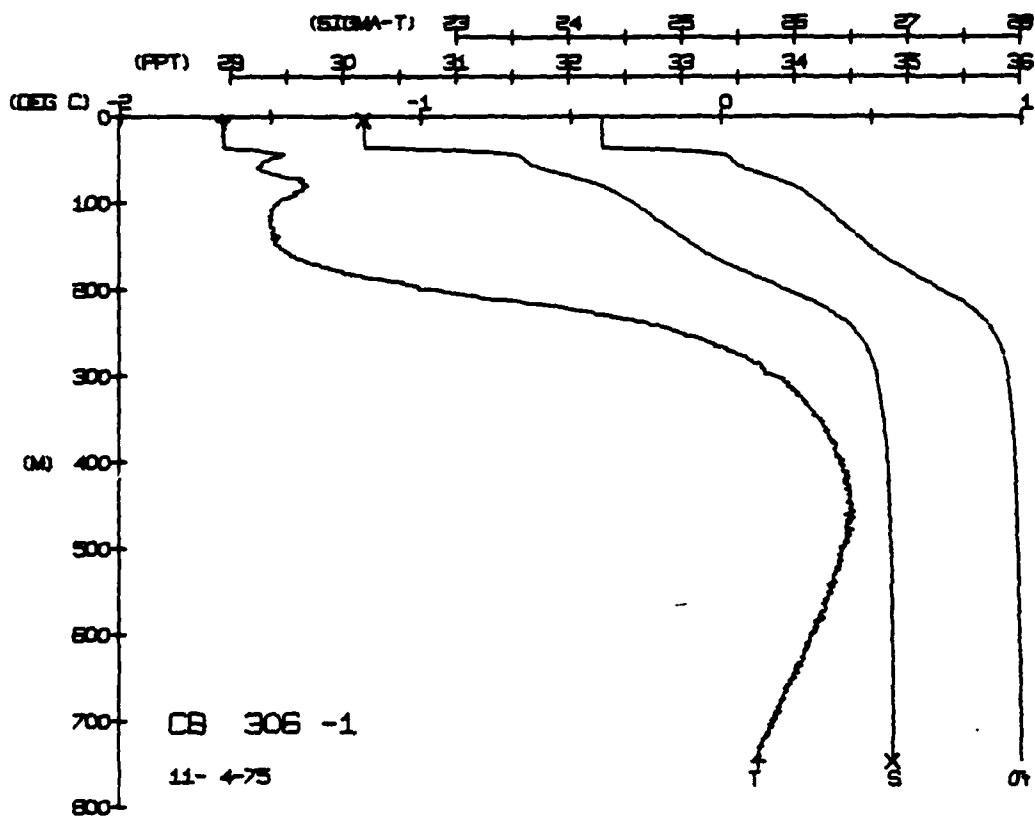




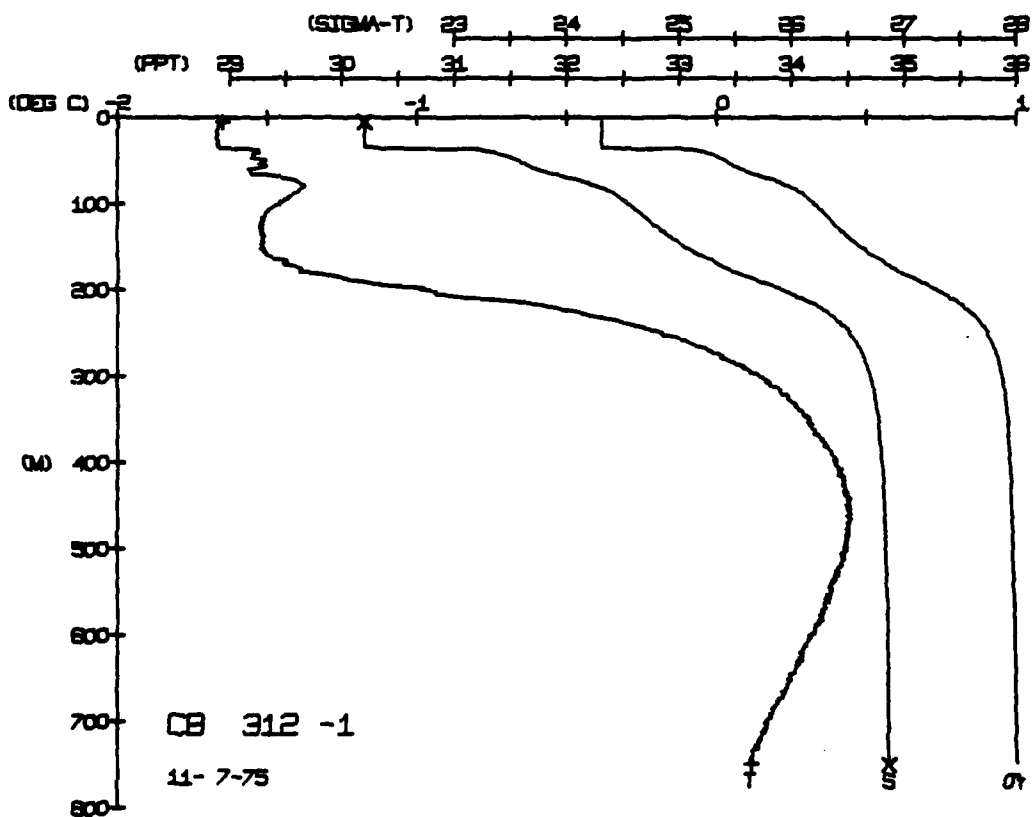
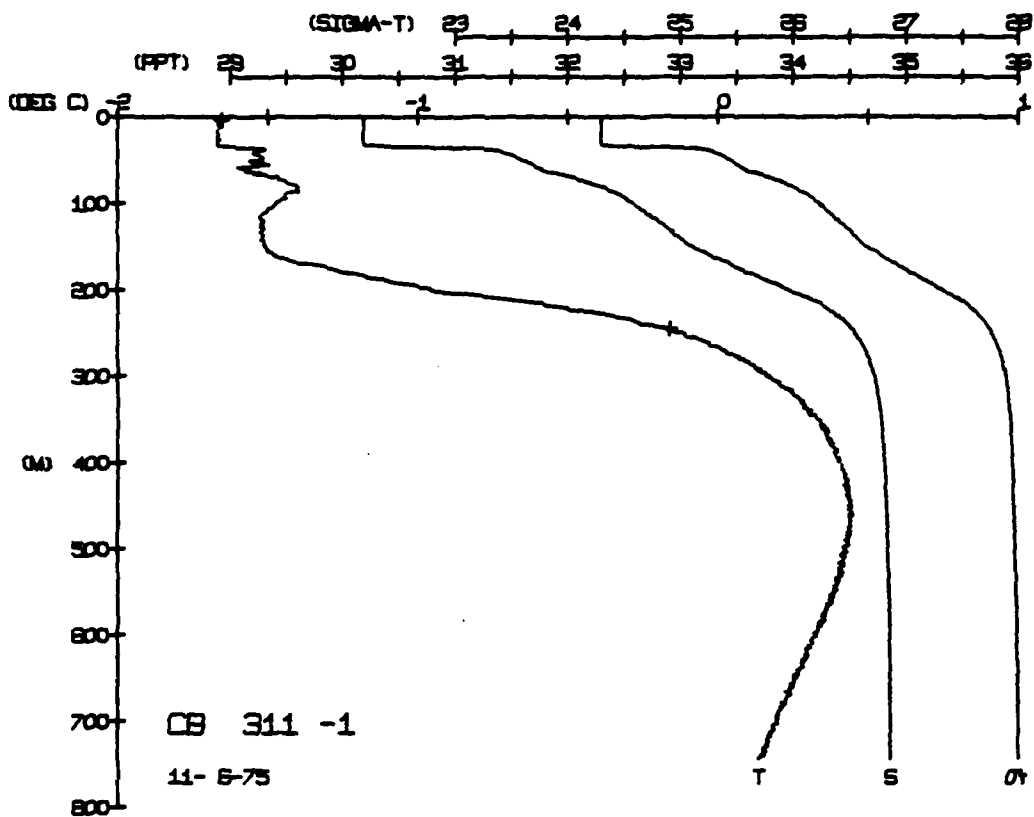




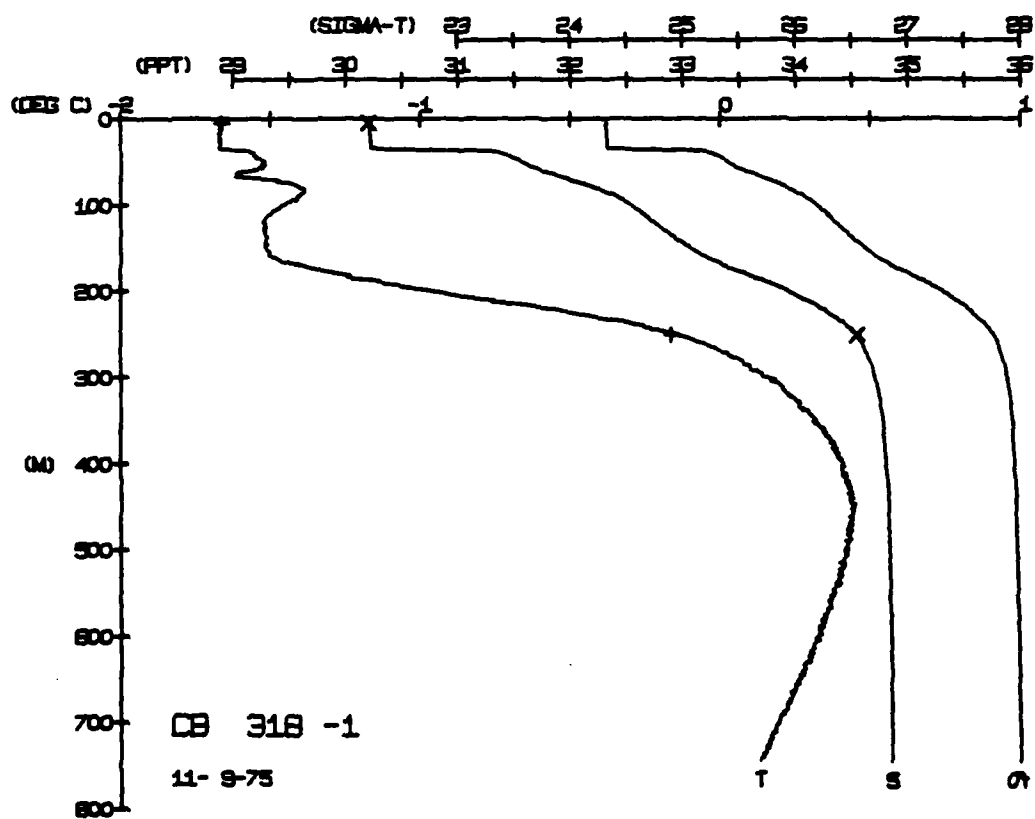
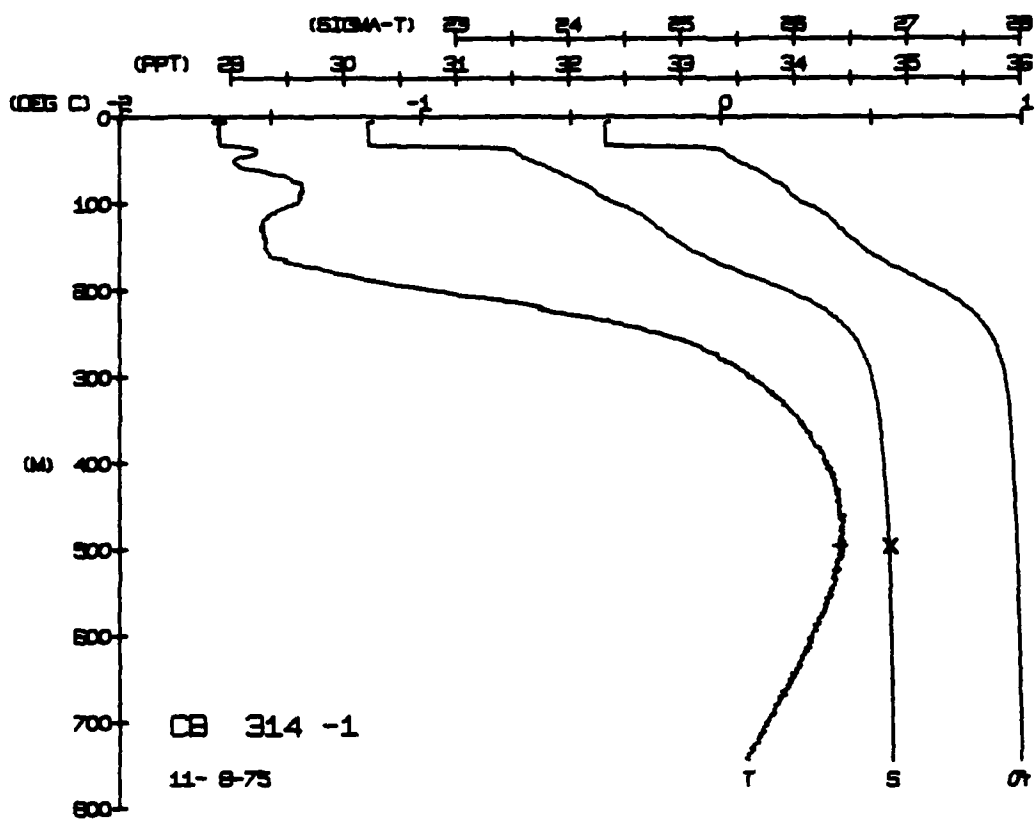






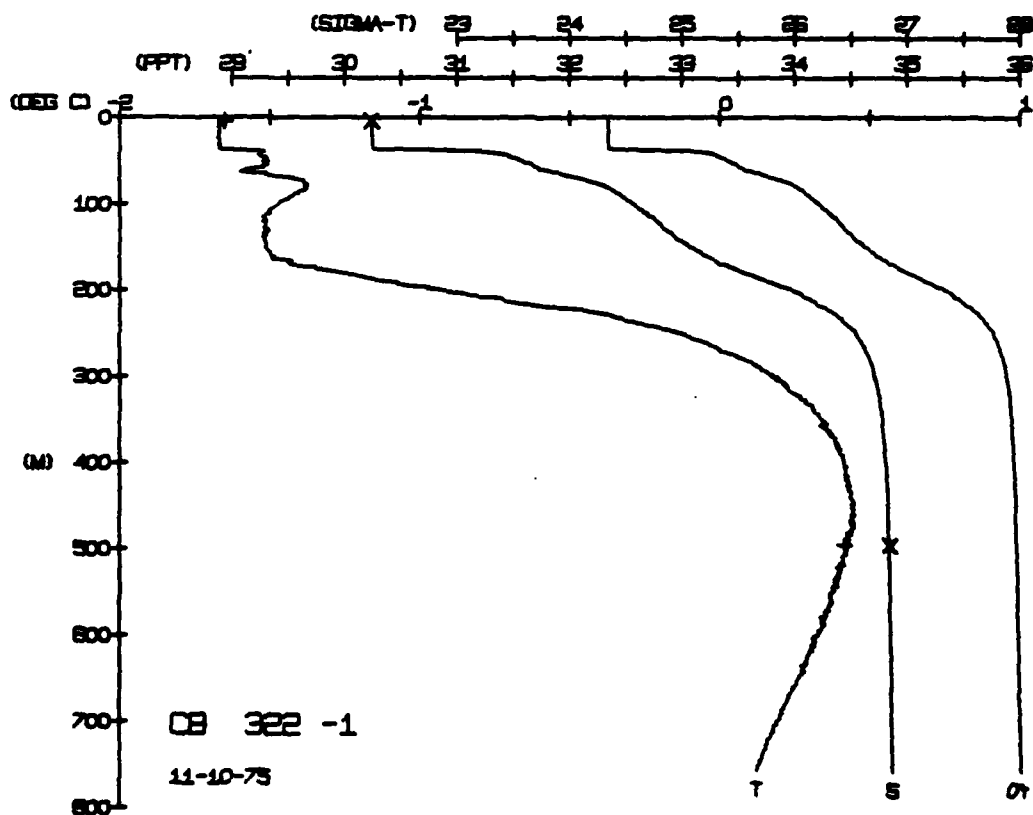
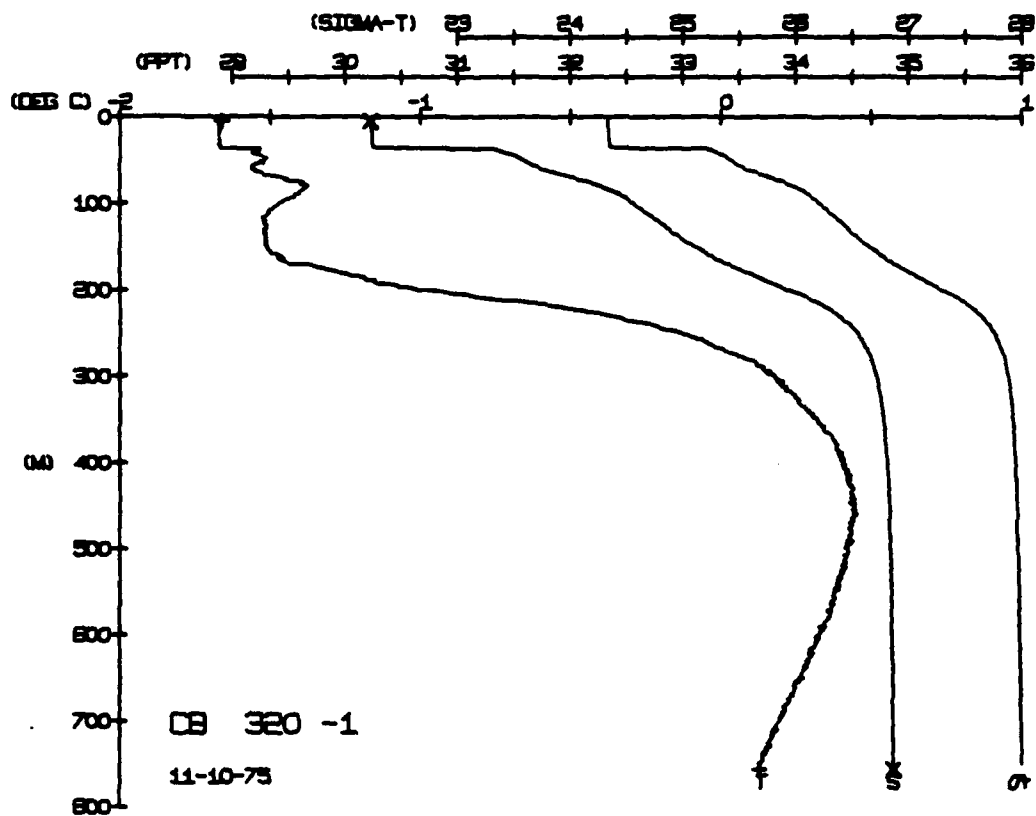








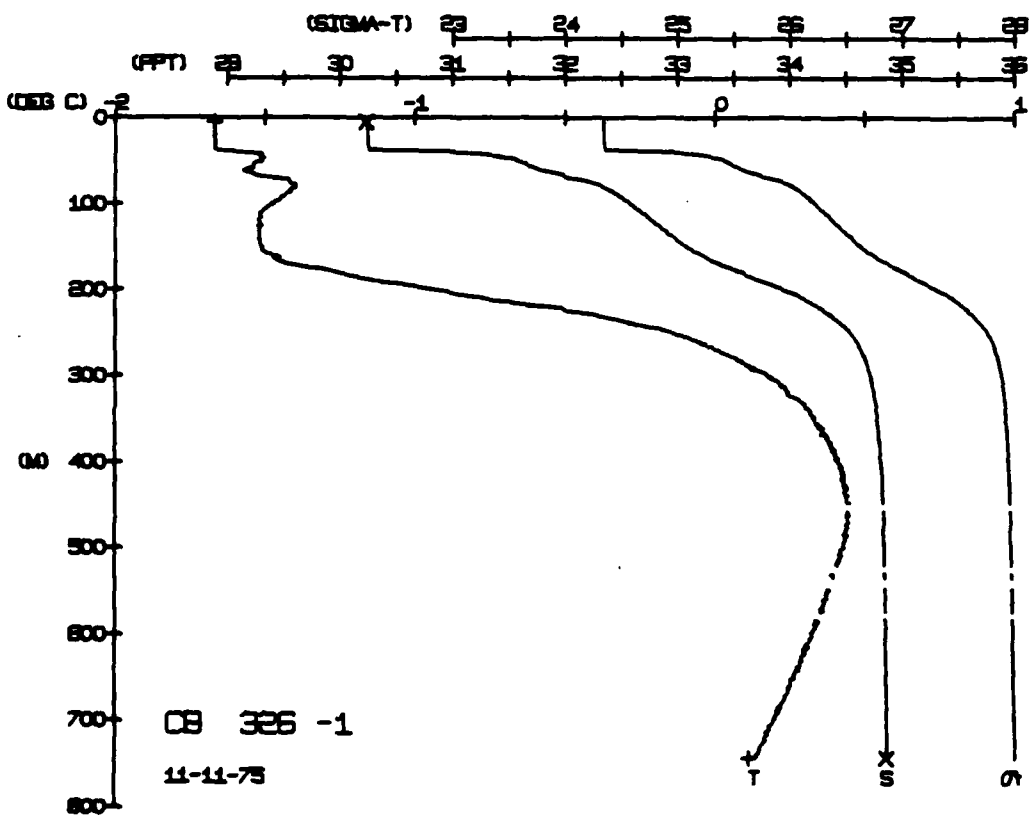
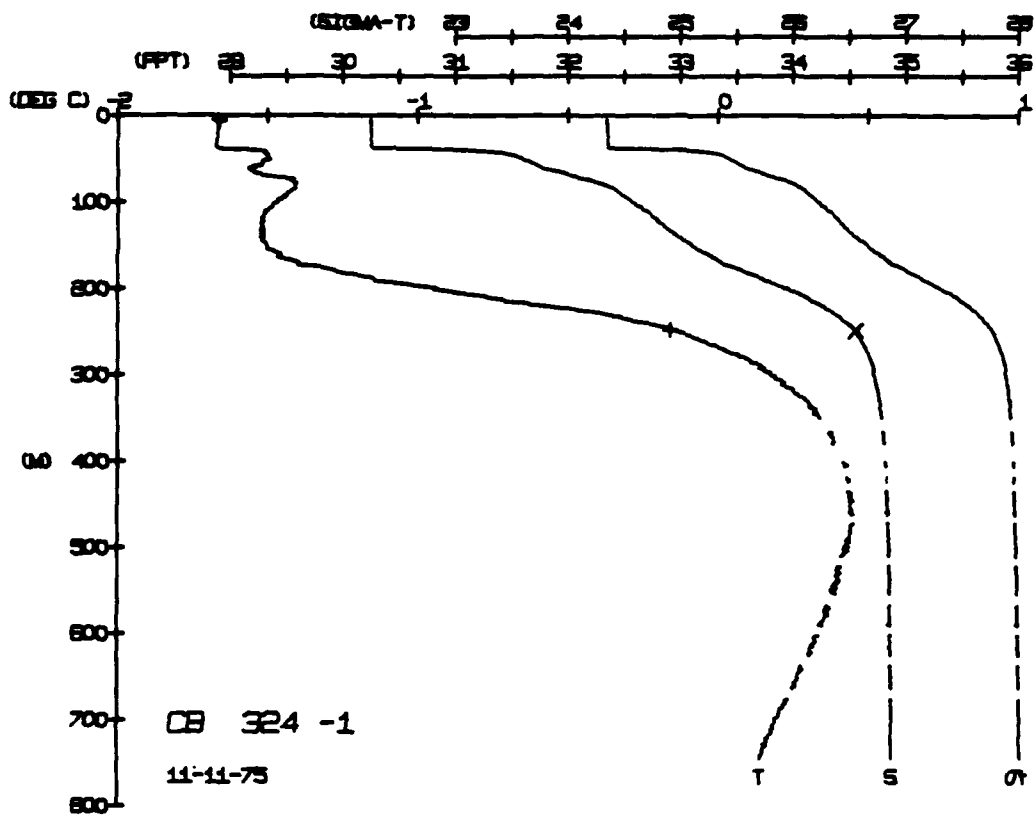




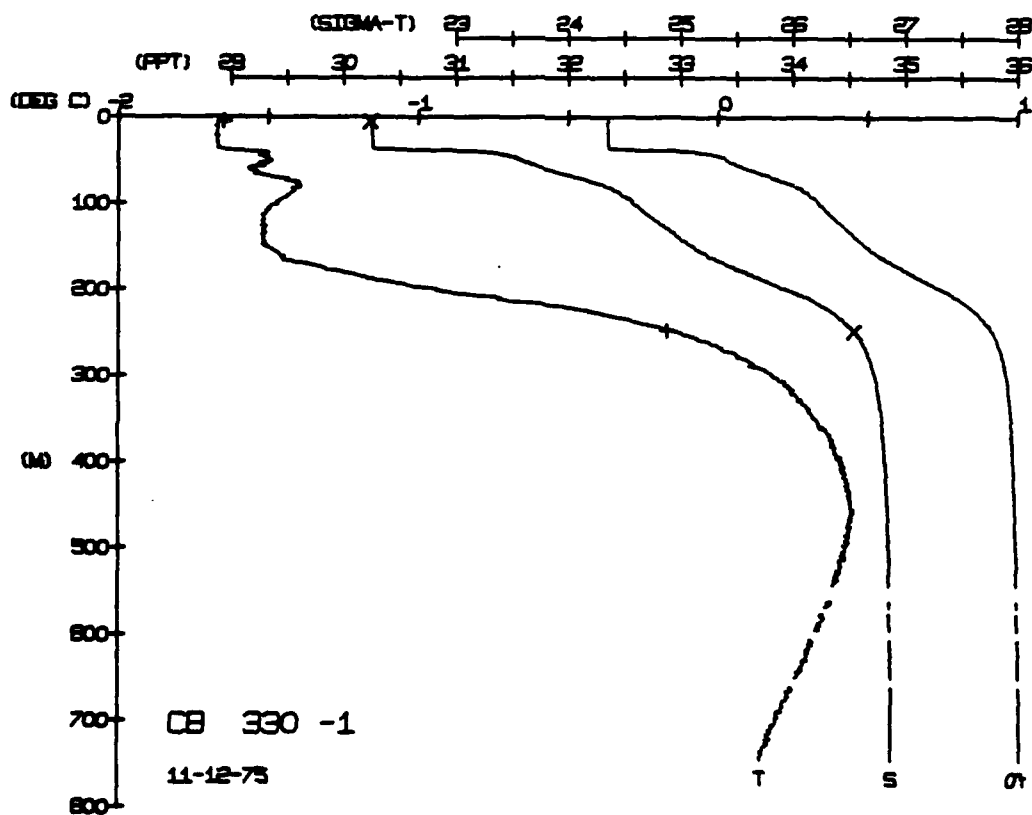
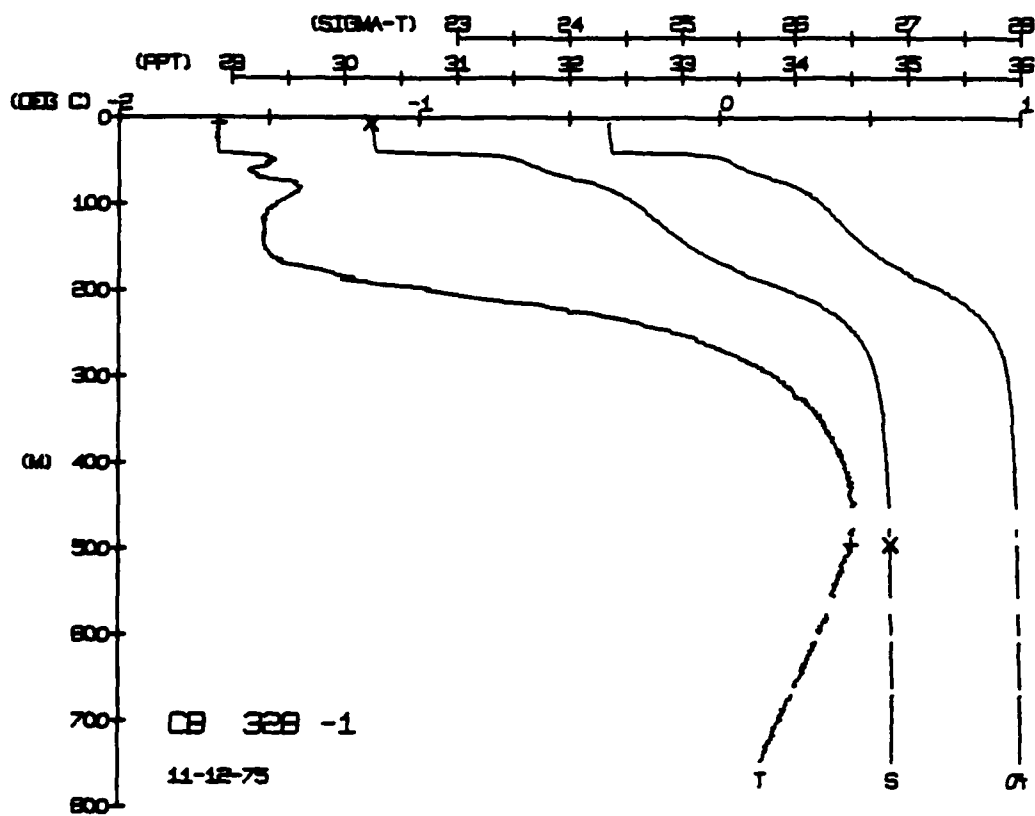
CARIBOU STATION 326(1) STD 11/NOV/1975 1917 GMT CODE = 3  
 LAT = 72.8750N LNG = 140.8044W IYER = 1 LGPR = 2  
 AIR TEMP = -32.6 BAROM = 1016.0 WIND = 156.4 SPTD = 17.8

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYMT	SOUND
07	66.66	77.77	72.22	4.44	5.55	00.00	78.88
14	66.66	77.77	72.22	4.44	5.55	00.00	78.88
21	66.66	77.77	72.22	4.44	5.55	00.00	78.88
28	66.66	77.77	72.22	4.44	5.55	00.00	78.88
35	66.66	77.77	72.22	4.44	5.55	00.00	78.88
42	66.66	77.77	72.22	4.44	5.55	00.00	78.88
49	66.66	77.77	72.22	4.44	5.55	00.00	78.88
56	66.66	77.77	72.22	4.44	5.55	00.00	78.88
63	66.66	77.77	72.22	4.44	5.55	00.00	78.88
70	66.66	77.77	72.22	4.44	5.55	00.00	78.88
77	66.66	77.77	72.22	4.44	5.55	00.00	78.88
84	66.66	77.77	72.22	4.44	5.55	00.00	78.88
91	66.66	77.77	72.22	4.44	5.55	00.00	78.88
98	66.66	77.77	72.22	4.44	5.55	00.00	78.88
105	66.66	77.77	72.22	4.44	5.55	00.00	78.88
112	66.66	77.77	72.22	4.44	5.55	00.00	78.88
119	66.66	77.77	72.22	4.44	5.55	00.00	78.88
126	66.66	77.77	72.22	4.44	5.55	00.00	78.88
133	66.66	77.77	72.22	4.44	5.55	00.00	78.88
140	66.66	77.77	72.22	4.44	5.55	00.00	78.88
147	66.66	77.77	72.22	4.44	5.55	00.00	78.88
154	66.66	77.77	72.22	4.44	5.55	00.00	78.88
161	66.66	77.77	72.22	4.44	5.55	00.00	78.88
168	66.66	77.77	72.22	4.44	5.55	00.00	78.88
175	66.66	77.77	72.22	4.44	5.55	00.00	78.88
182	66.66	77.77	72.22	4.44	5.55	00.00	78.88
189	66.66	77.77	72.22	4.44	5.55	00.00	78.88
196	66.66	77.77	72.22	4.44	5.55	00.00	78.88
203	66.66	77.77	72.22	4.44	5.55	00.00	78.88
210	66.66	77.77	72.22	4.44	5.55	00.00	78.88
217	66.66	77.77	72.22	4.44	5.55	00.00	78.88
224	66.66	77.77	72.22	4.44	5.55	00.00	78.88
231	66.66	77.77	72.22	4.44	5.55	00.00	78.88
238	66.66	77.77	72.22	4.44	5.55	00.00	78.88
245	66.66	77.77	72.22	4.44	5.55	00.00	78.88
252	66.66	77.77	72.22	4.44	5.55	00.00	78.88
259	66.66	77.77	72.22	4.44	5.55	00.00	78.88
266	66.66	77.77	72.22	4.44	5.55	00.00	78.88
273	66.66	77.77	72.22	4.44	5.55	00.00	78.88
280	66.66	77.77	72.22	4.44	5.55	00.00	78.88
287	66.66	77.77	72.22	4.44	5.55	00.00	78.88
294	66.66	77.77	72.22	4.44	5.55	00.00	78.88
301	66.66	77.77	72.22	4.44	5.55	00.00	78.88
308	66.66	77.77	72.22	4.44	5.55	00.00	78.88
315	66.66	77.77	72.22	4.44	5.55	00.00	78.88
322	66.66	77.77	72.22	4.44	5.55	00.00	78.88
329	66.66	77.77	72.22	4.44	5.55	00.00	78.88
336	66.66	77.77	72.22	4.44	5.55	00.00	78.88
343	66.66	77.77	72.22	4.44	5.55	00.00	78.88
350	66.						

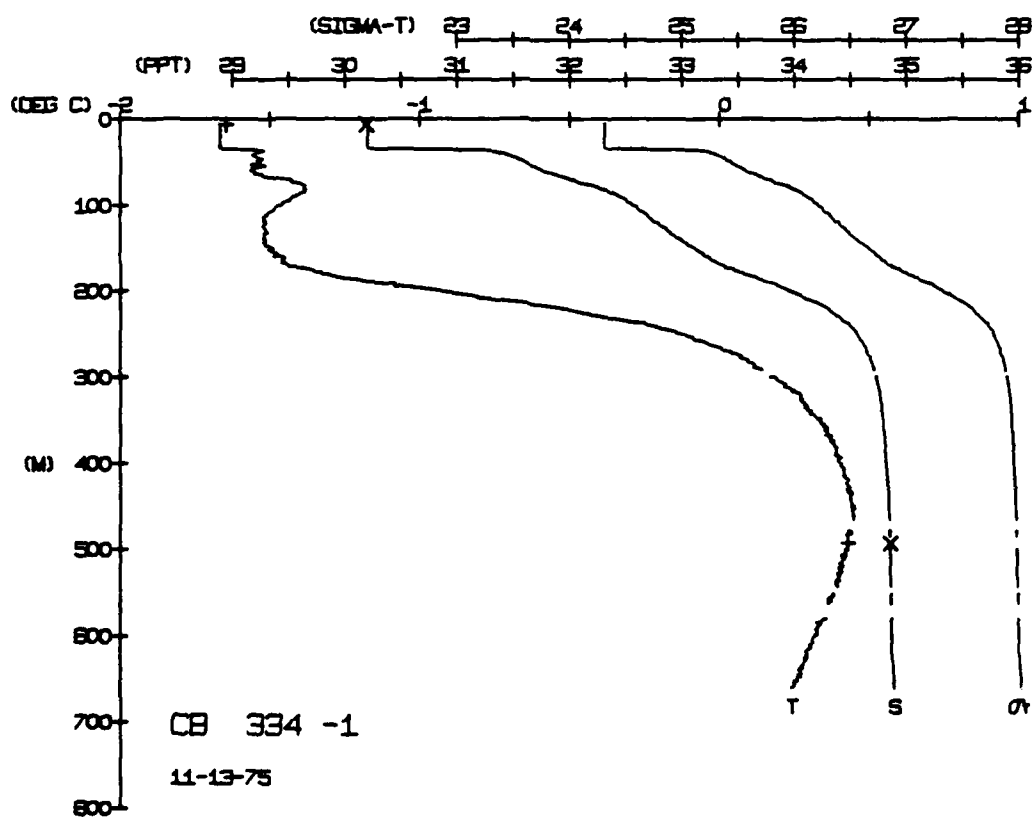
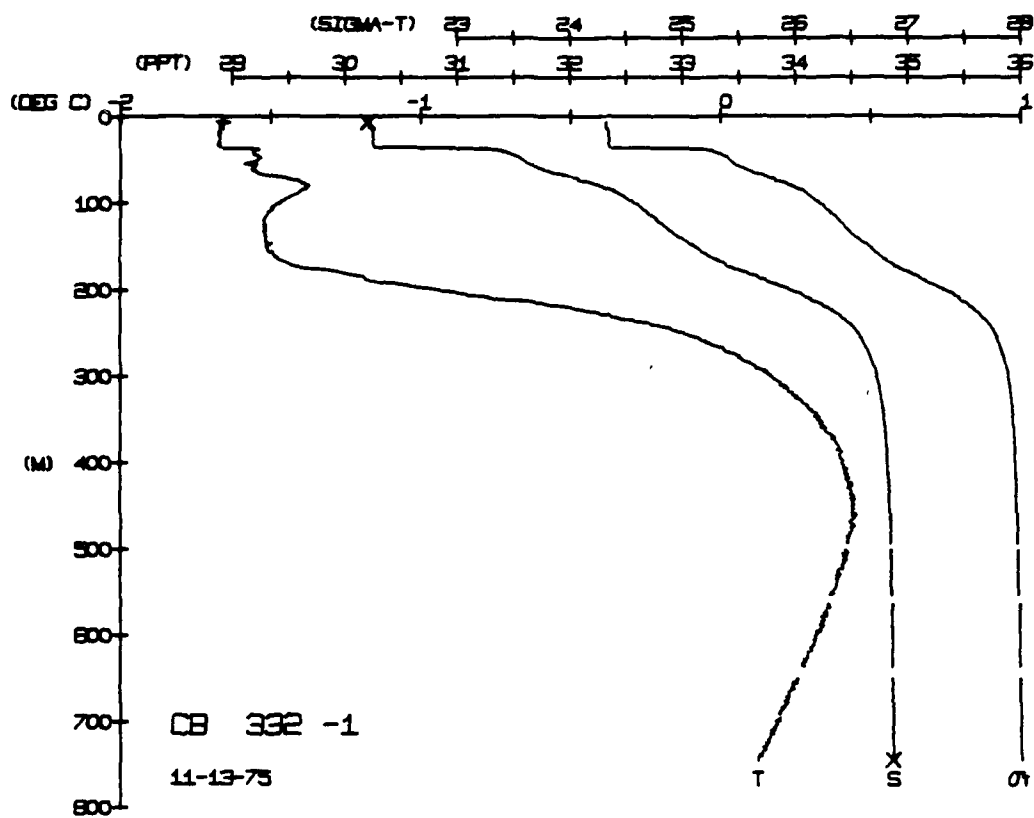
[illegible]





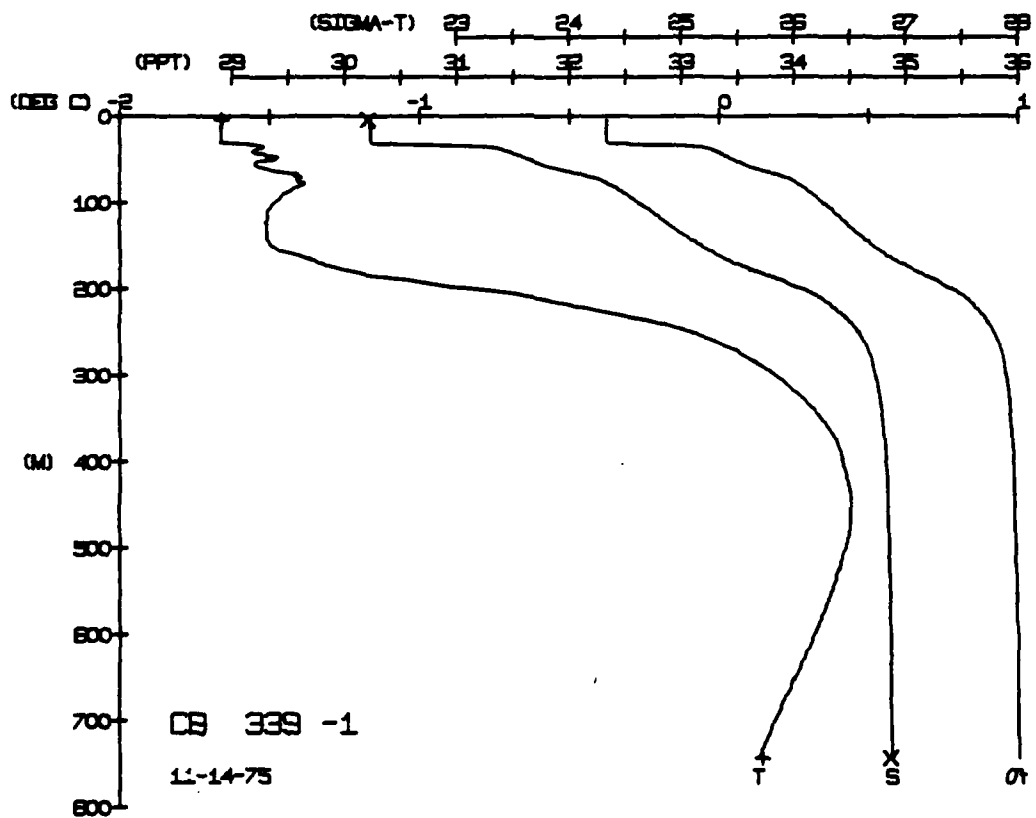
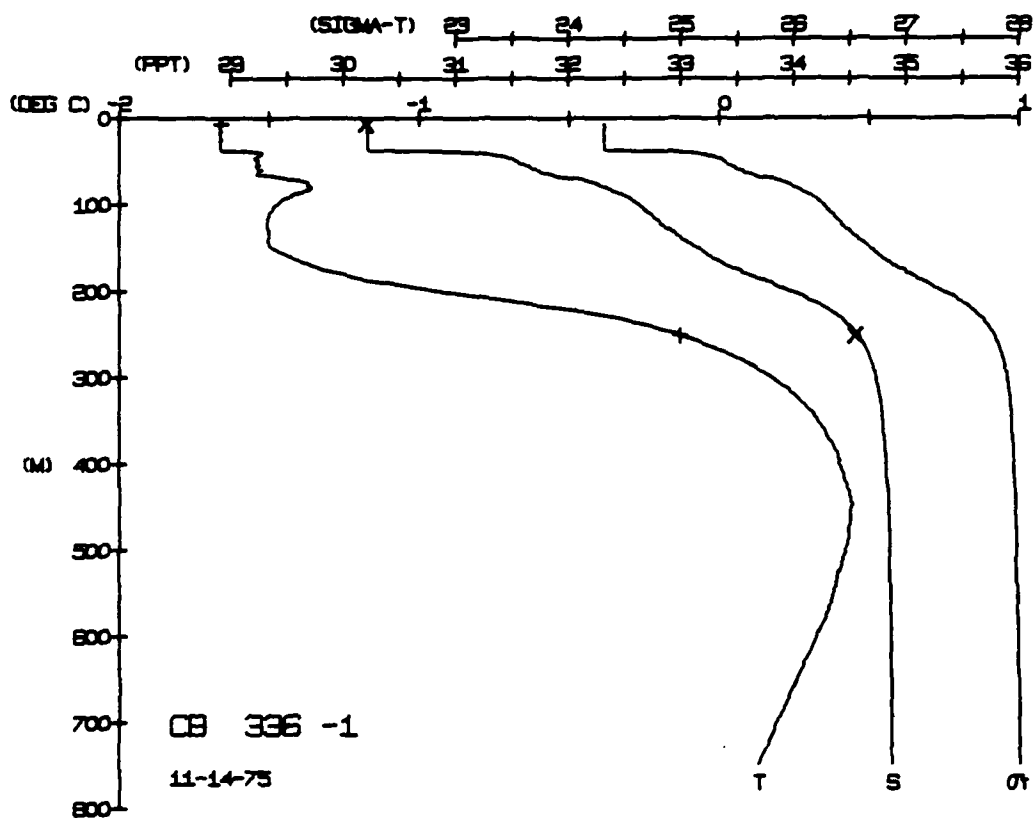




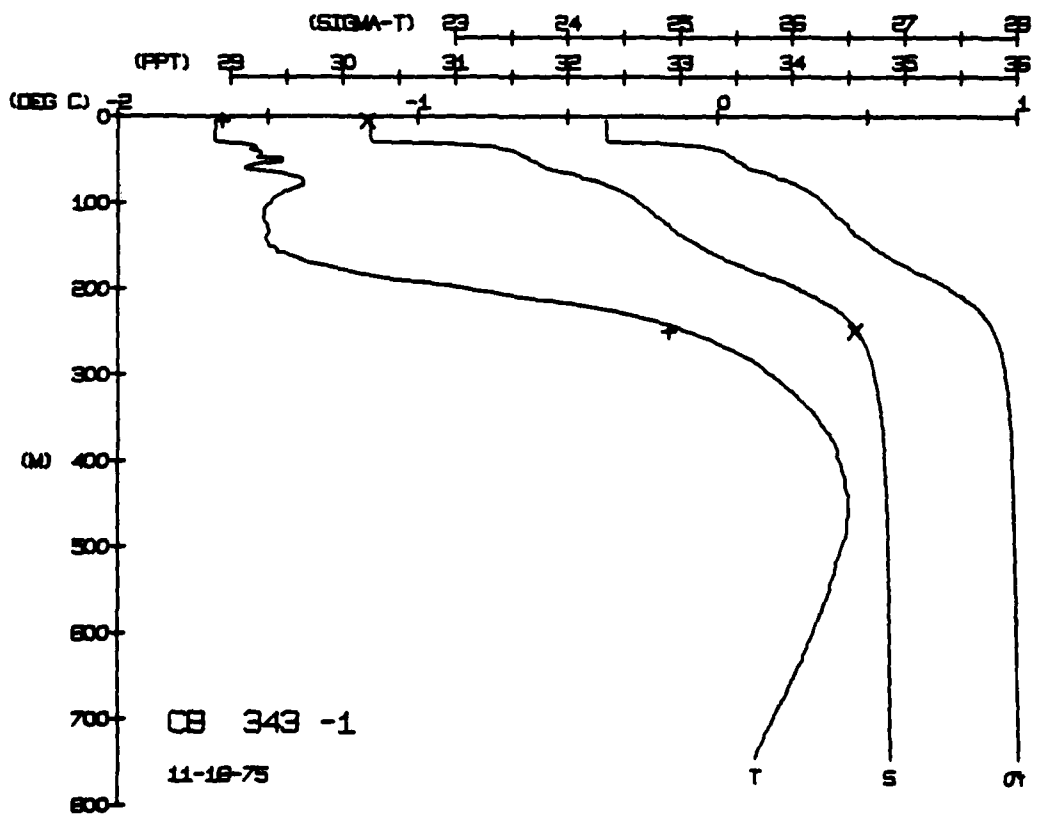
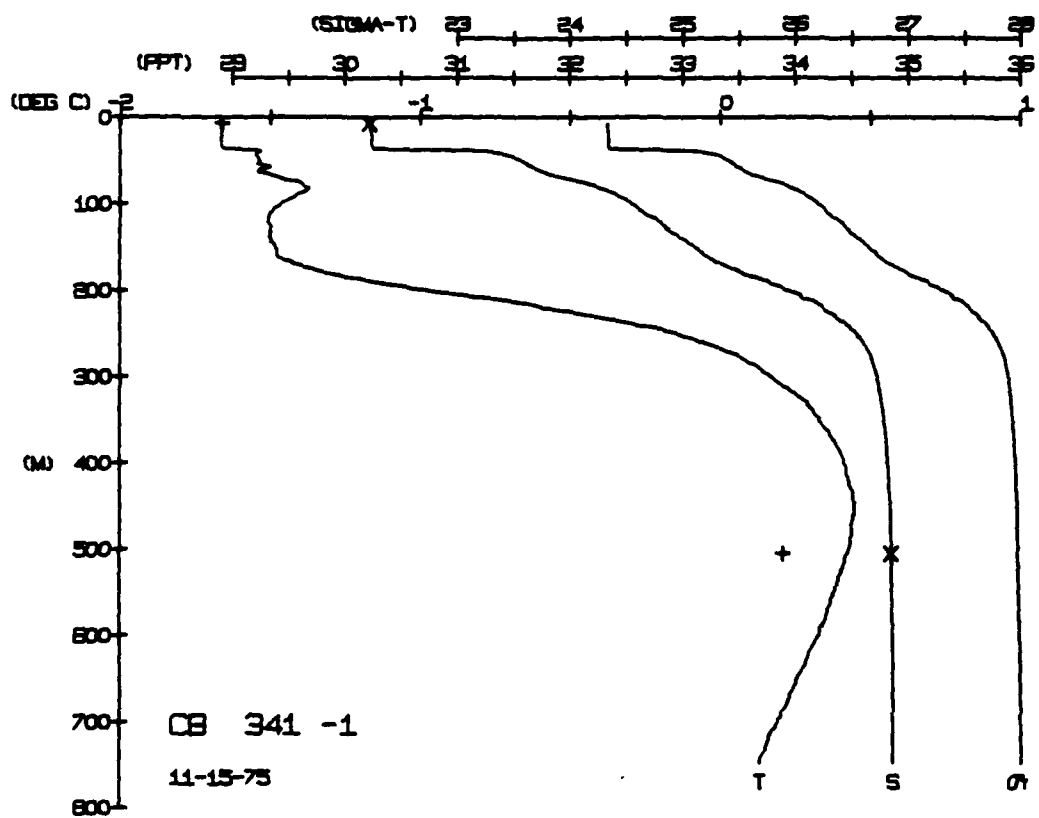




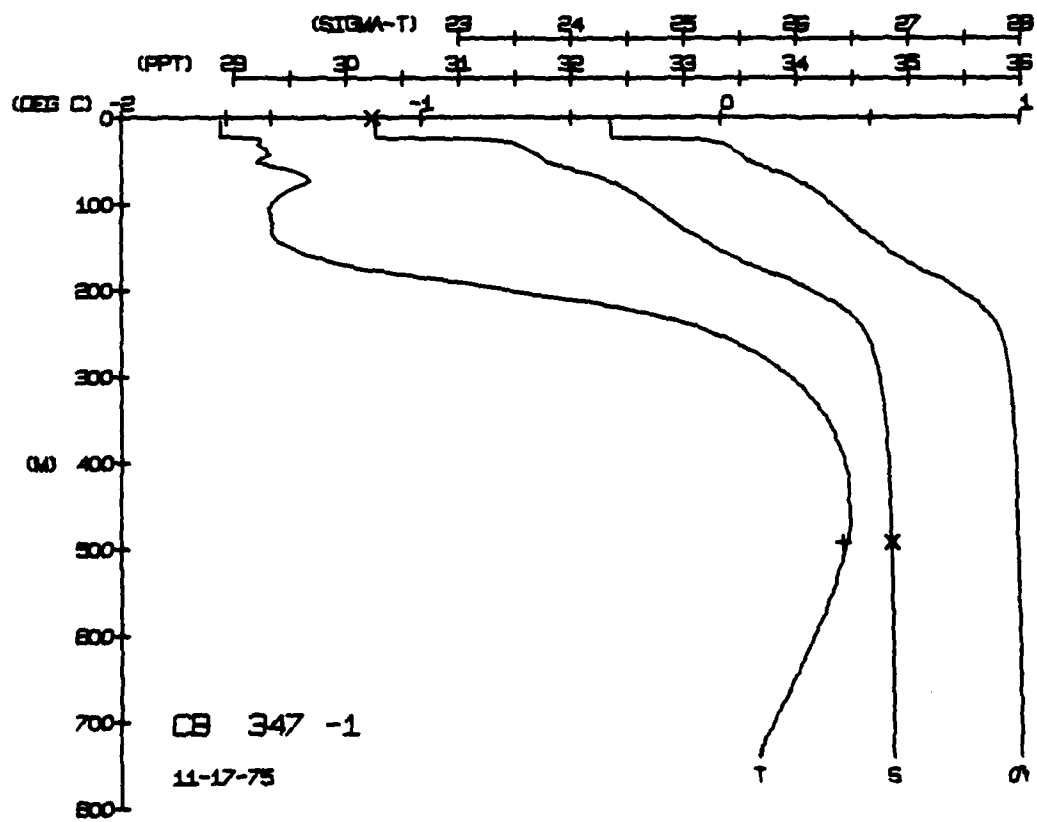
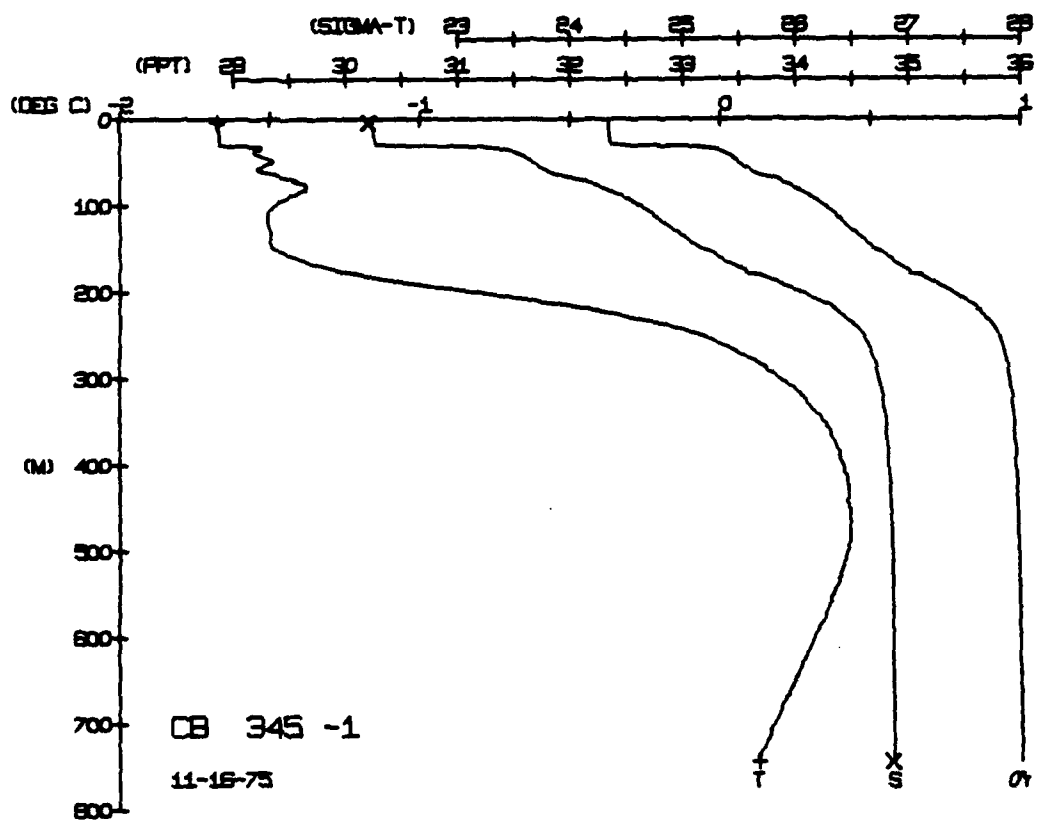




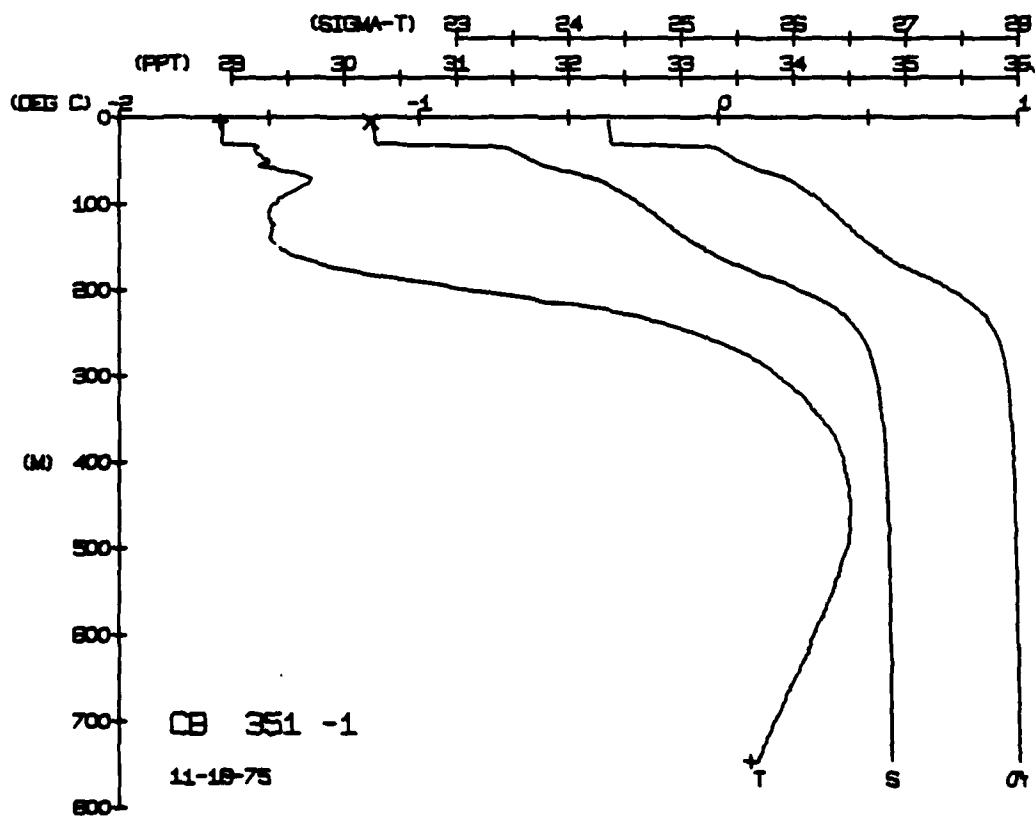
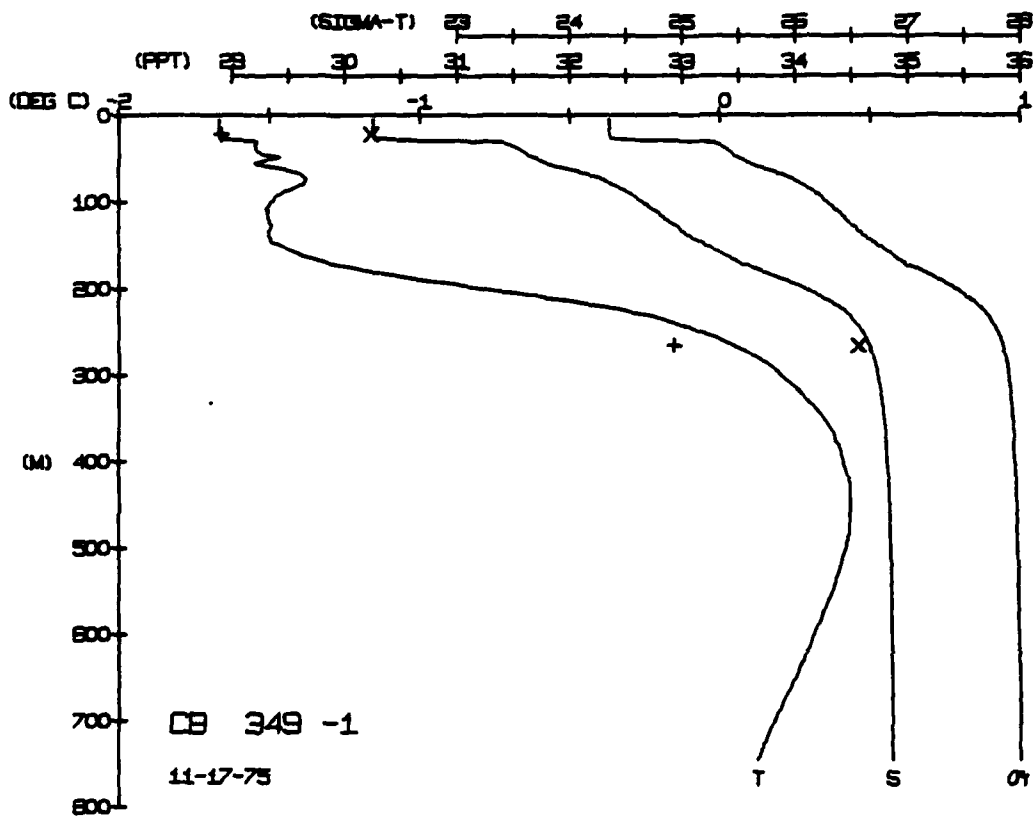














CARIBOU STATION 355(1) STD 19/NOV/1975 459 GMT CDDF = 2  
 LAT = 72.7186N LNG = 141.3622W LTR = 1 LGRR = 2  
 AIR TEMP = -30.3 BAROM = 1035.7 WIND = 20.5 SPEED = 33.2

[illegible]

OUT	NUM	NUM	==	12
OUT	NUM	NUM	==	12

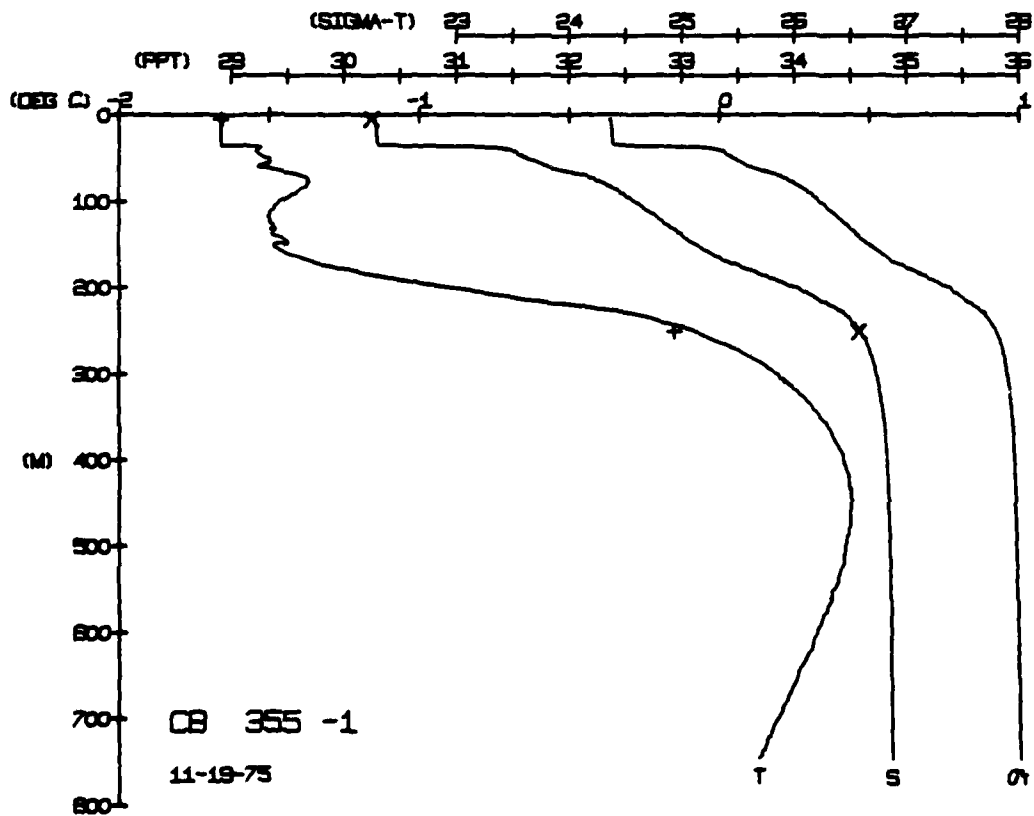
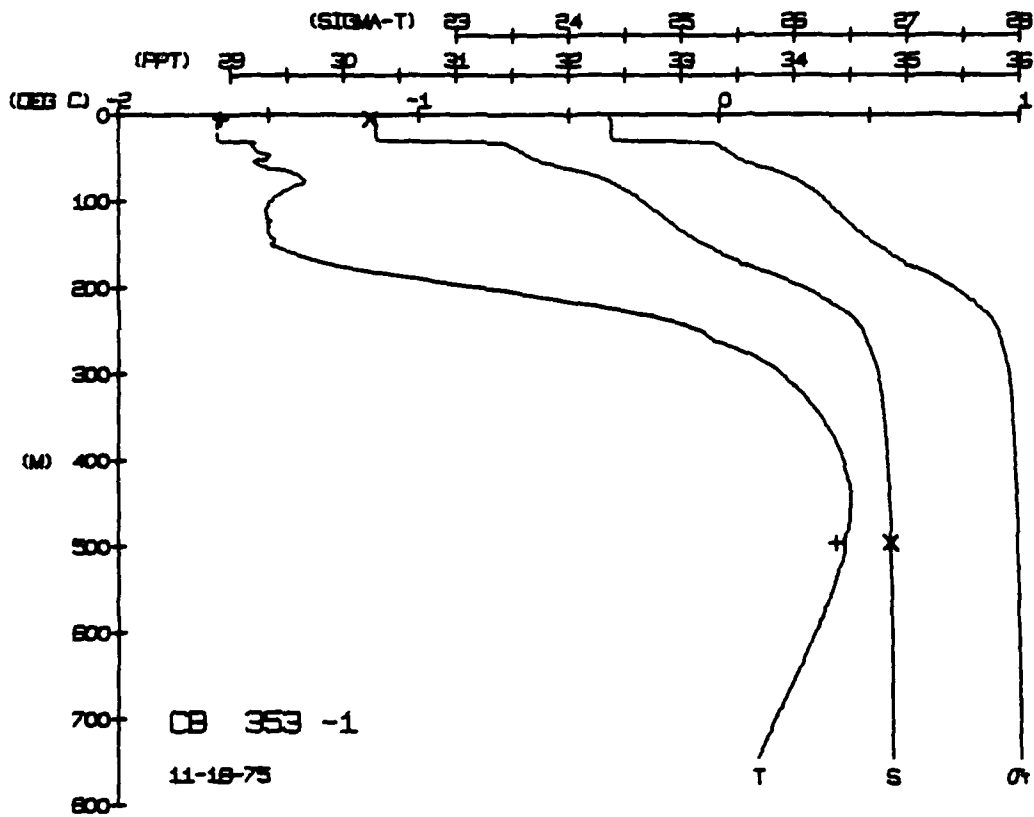
TEMP.	SALIN
-1.66	30.23
0.39	34.86

1	2
NUM	NUM
BOT	BOT

DEPTH 4.3  
251.0

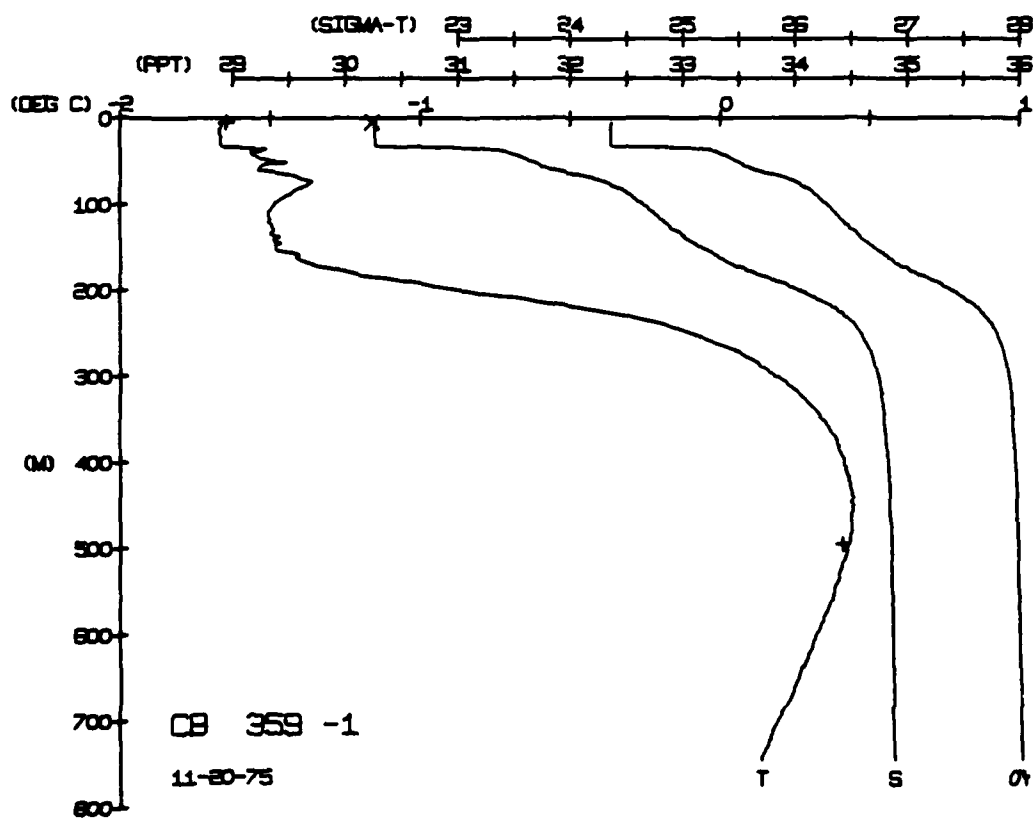
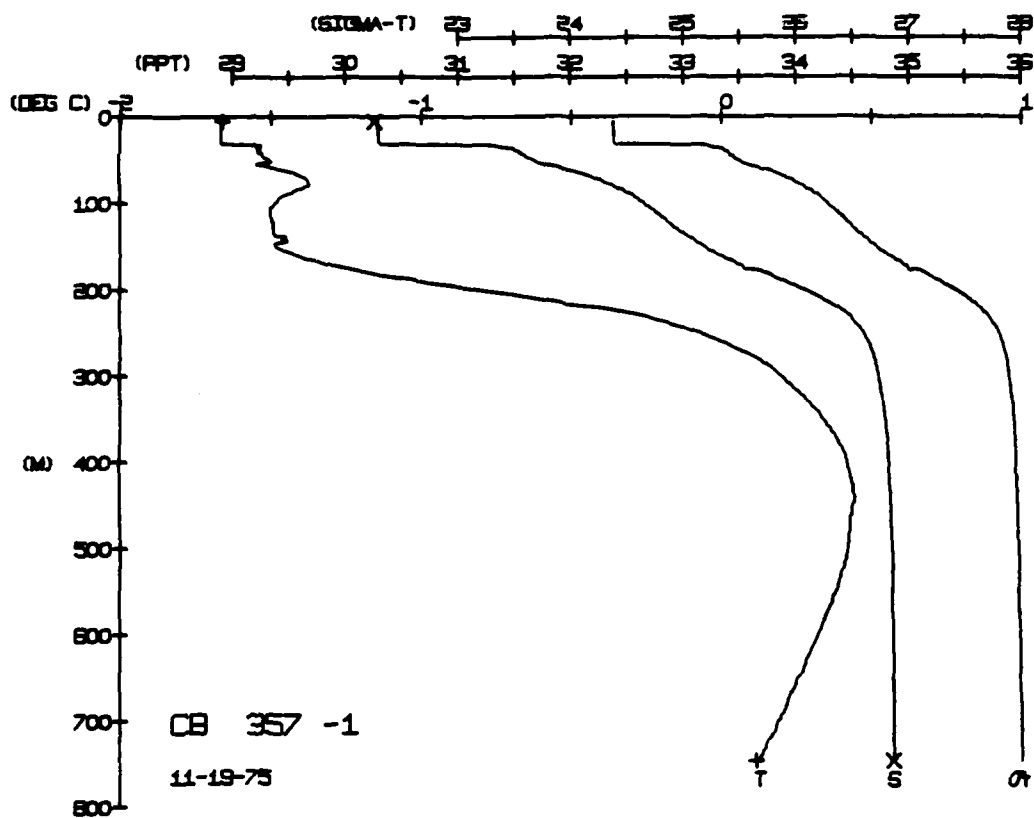
TEMP.  
-1.66  
-0.15

5ALJN  
30.25  
34.58

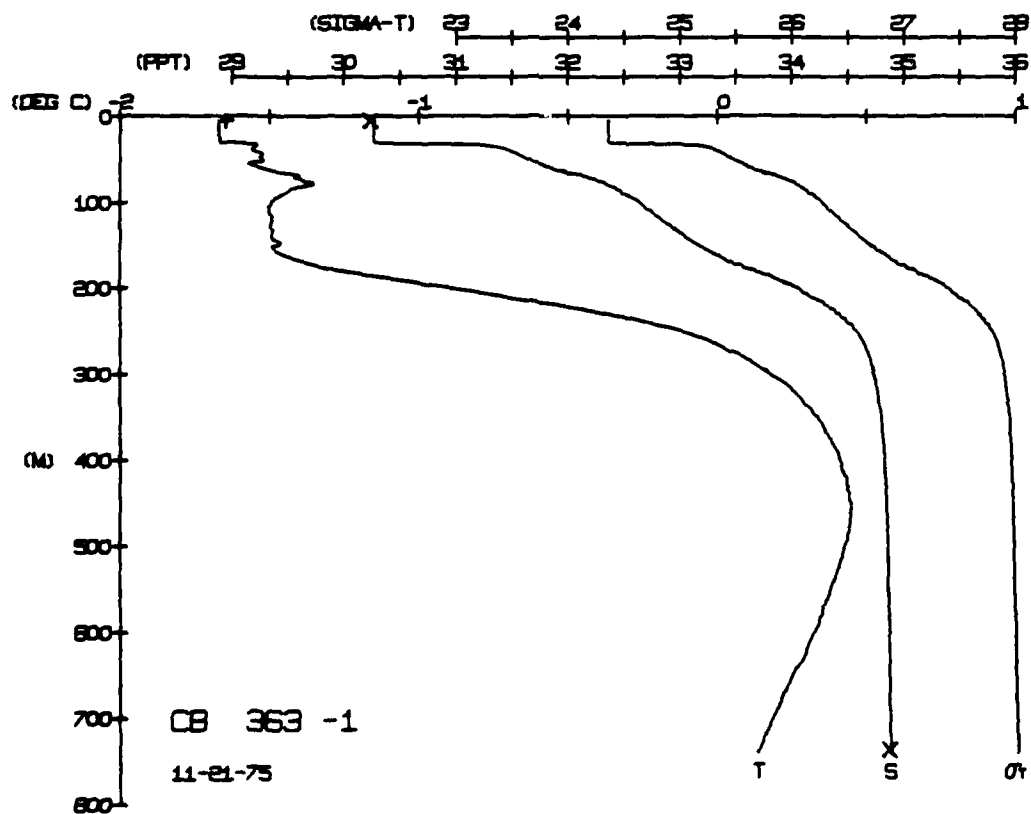
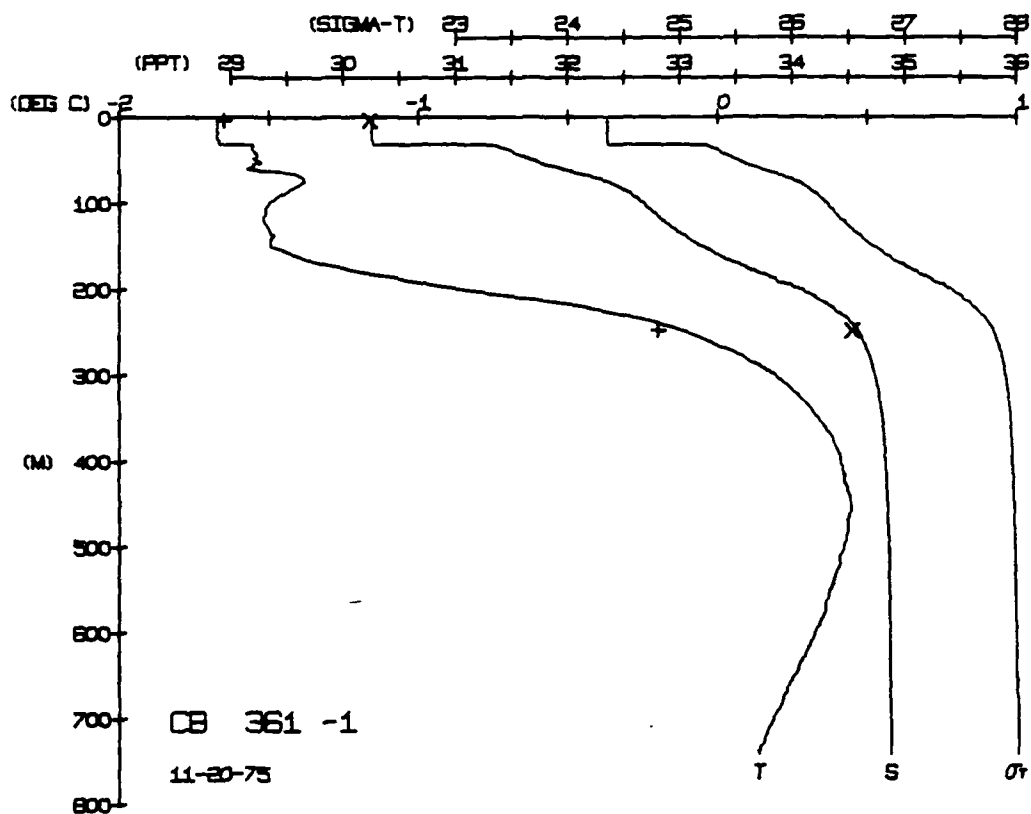


CARIBOU STATION 359(1) STD 20/NOV/1975 448 GMT CODE = 2  
LAT = 72.7337N LNC = 141.4335W LTER = 0 LGGR = 0  
AIR TEMP = -31.0 BAROM = 1045.7 WIND = 95.9 SPEED = 54.1

[illegible]



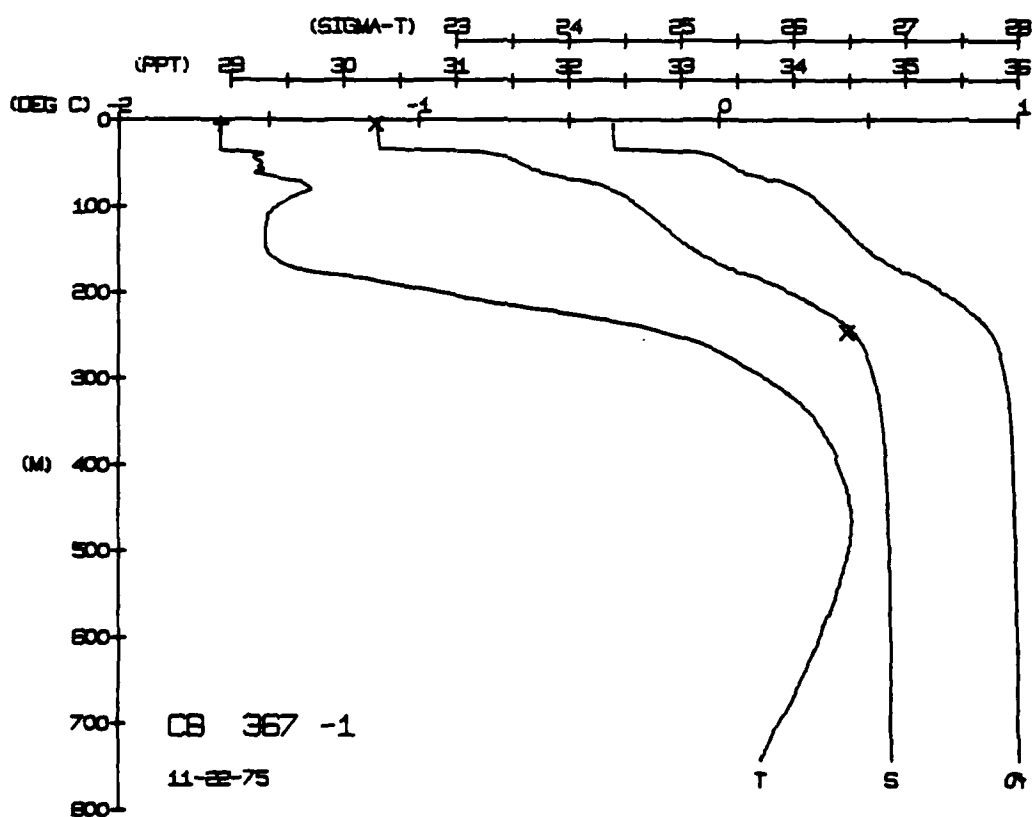
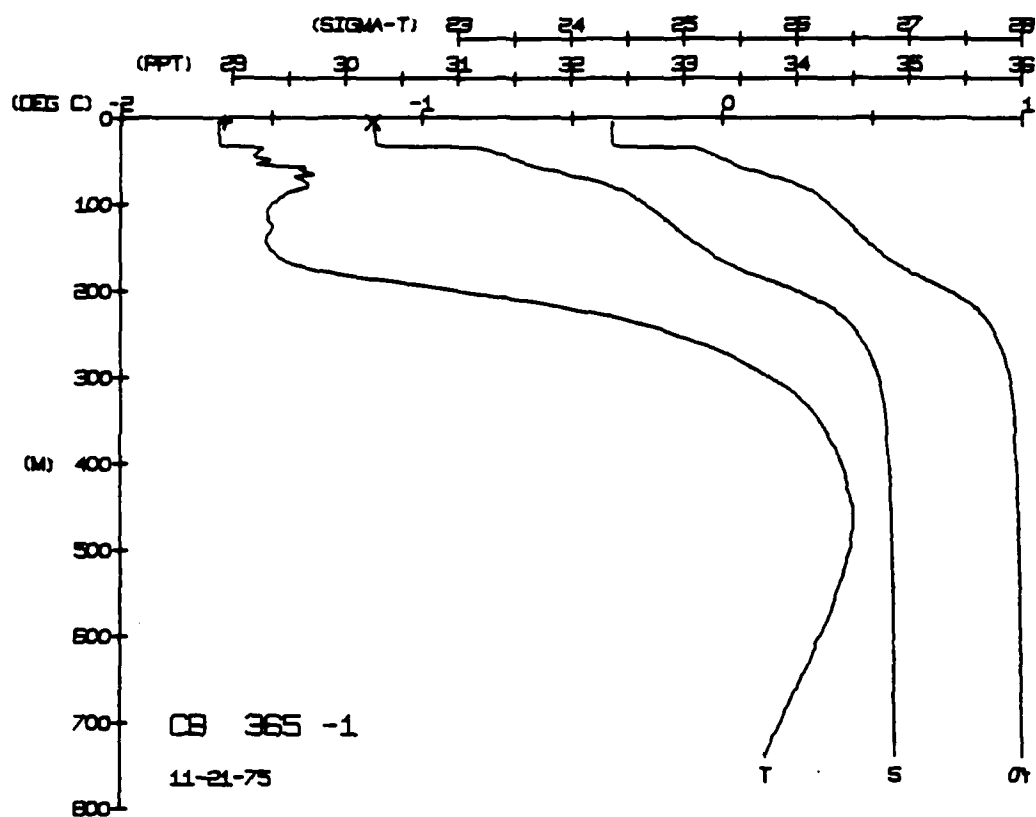
CARIBOU STATION 363(1) STD 21/NOV/1975 500 GM1 CODE = 2  
LAT = 72.8502N LNG = 141.7903W LTER = 44. LGER = 92.  
AIR TEMP = -26.4 BARUM = 1043.0 WIND = 106.5 SPEED = 101.0[illegible][illegible]



CARIBOU STATION 367(1) STD 22/NOV/1975 526 GMT CODE = 2  
LAT = 73.0205N LNG = 142.1574W LTER = 1 LGRR = 1  
AIR TEMP = -21.3 BAROM = 1031.2 WIND = 127.0 SPEED = 127.9

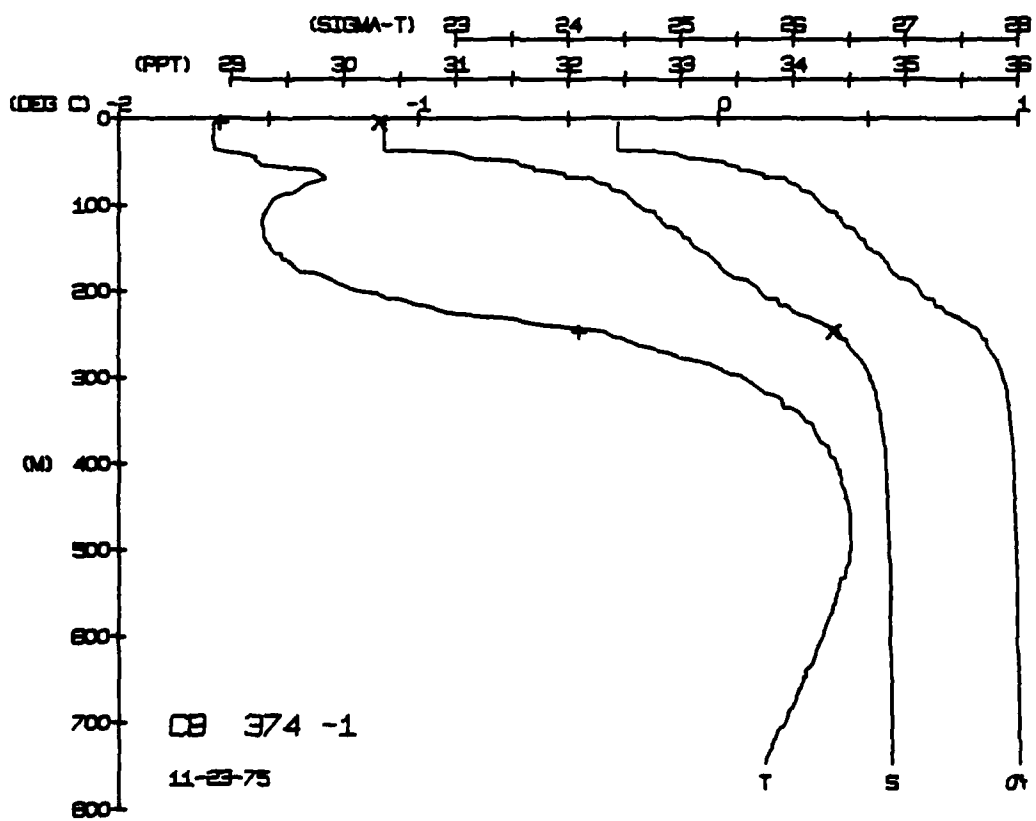
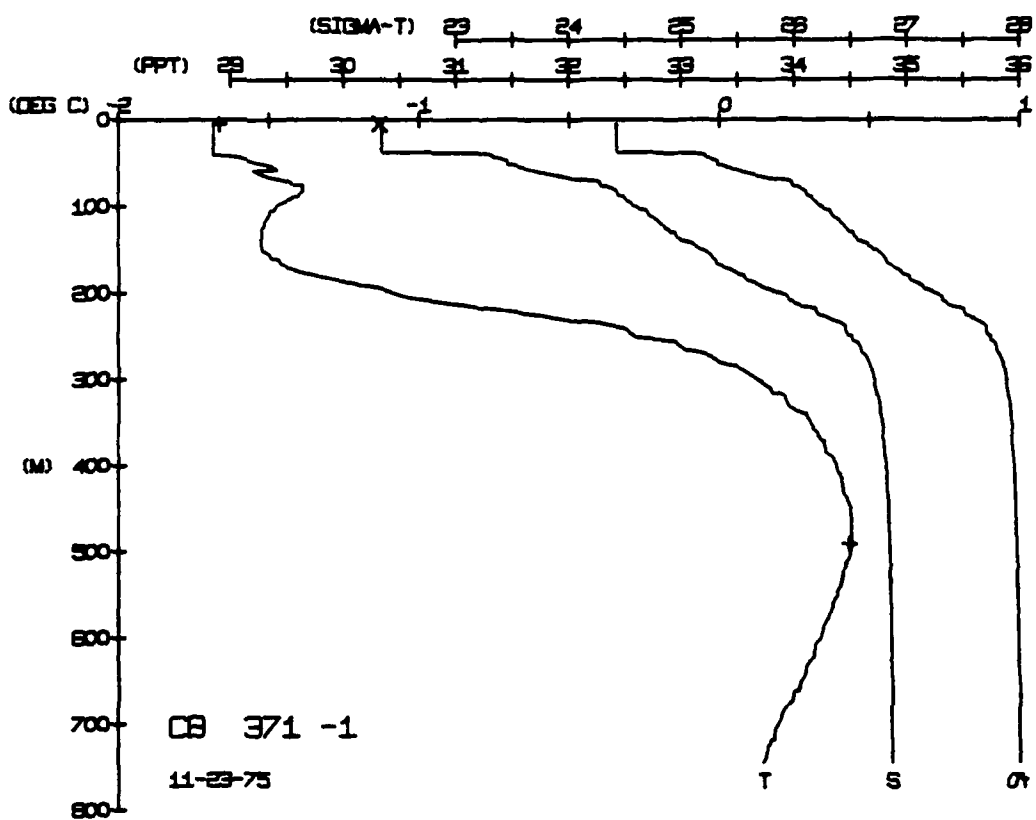
[illegible]

DEPTH	TEMP.	SALIN.
4.5	-1.66	30.28
246.5		34.48

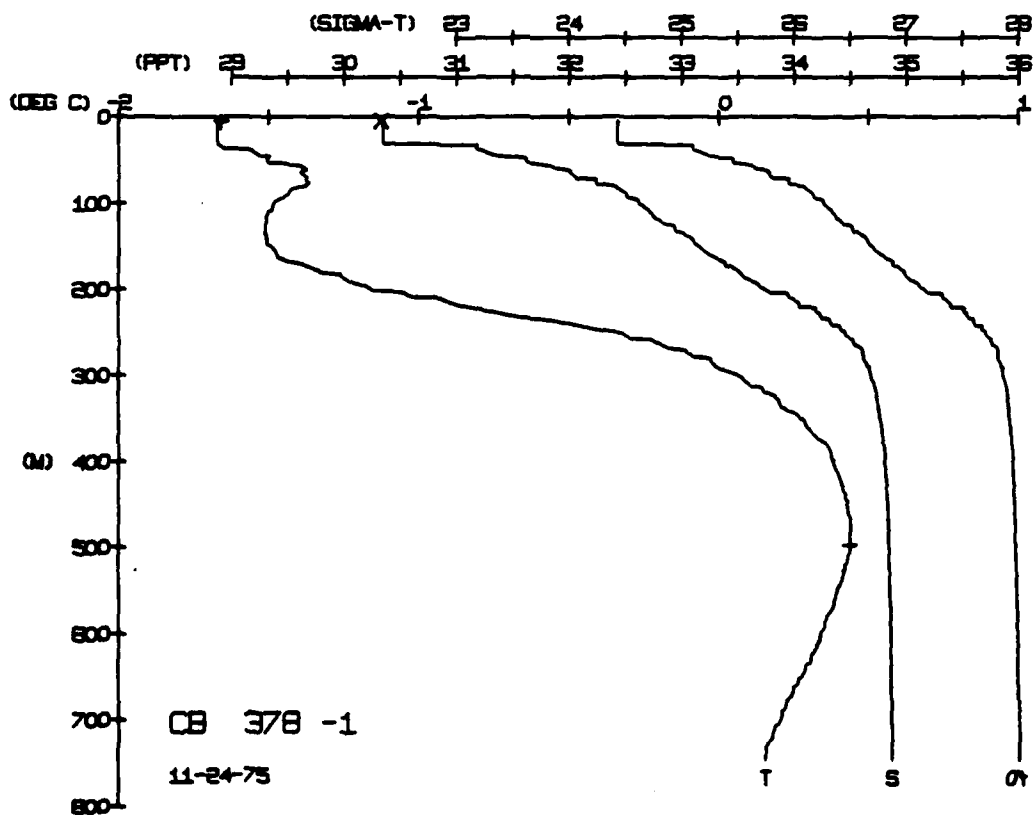
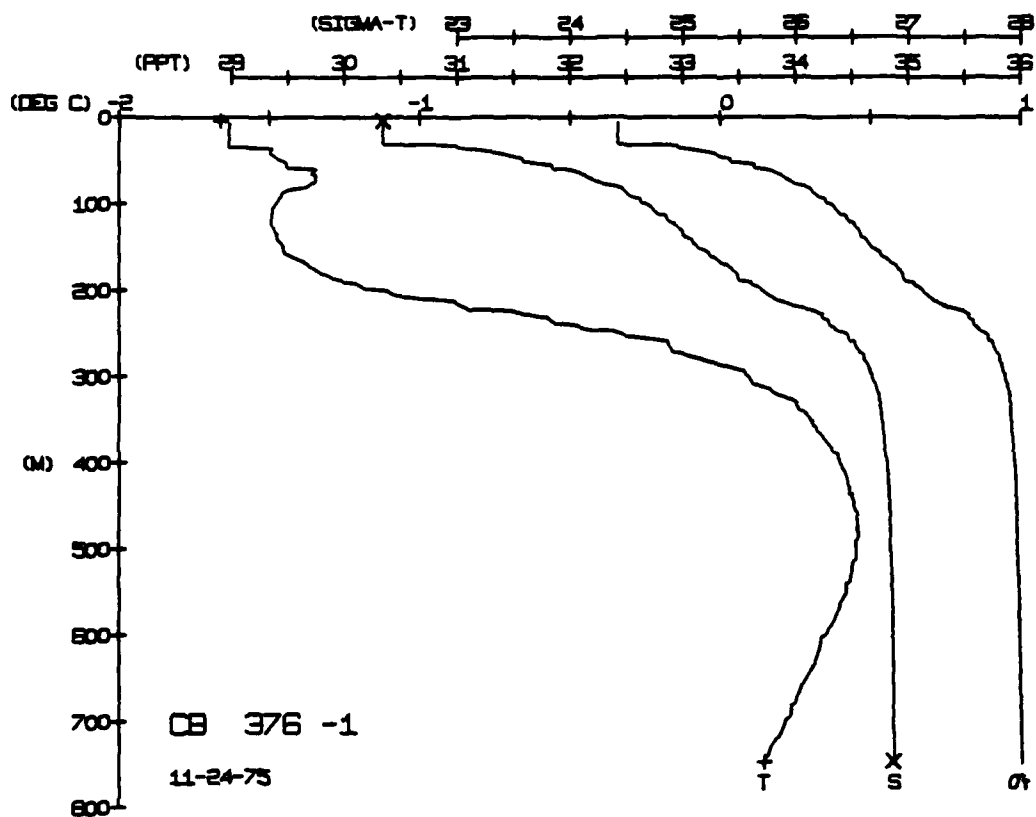








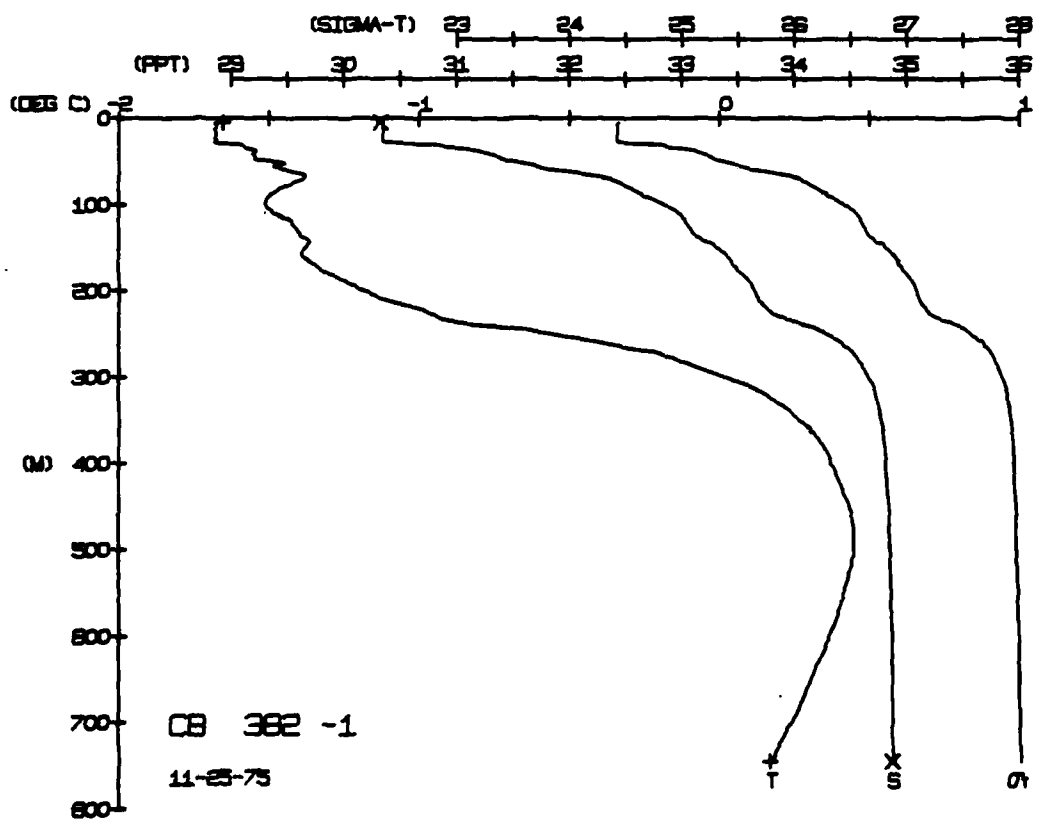
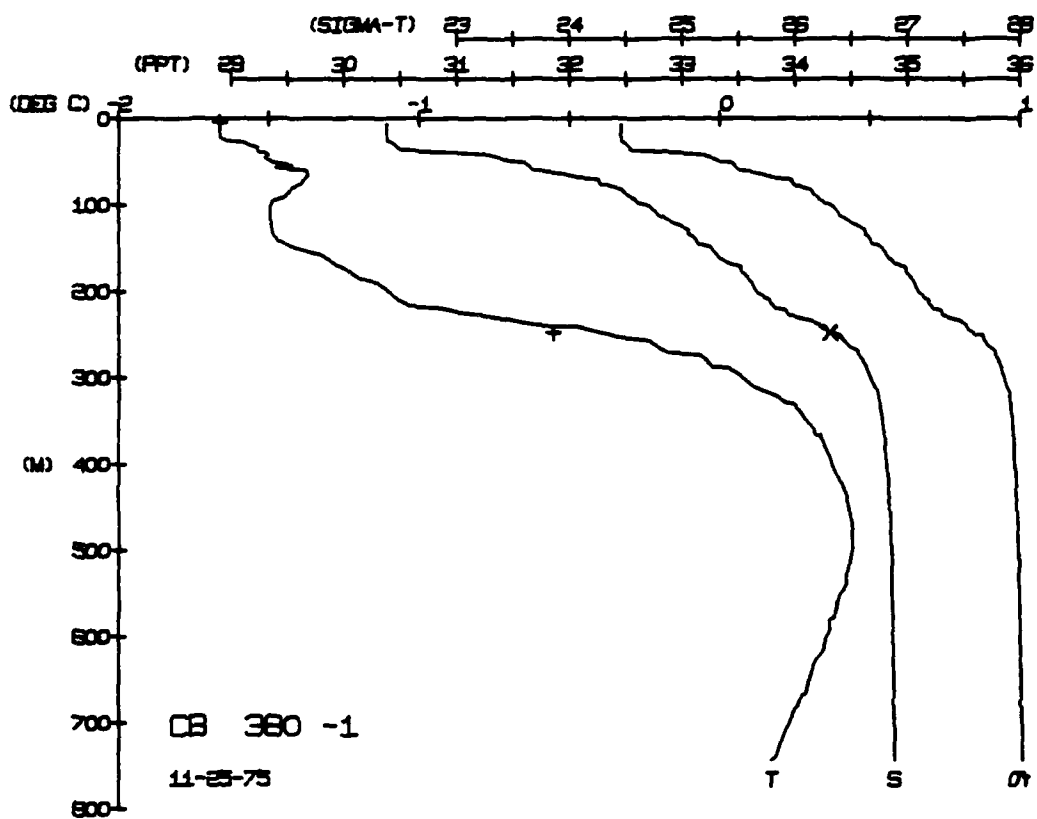




CARIBUW STATION 382(1) STD 25/NOV/1975 1800 GMT CODE = 2  
LAT = 73.1316N LNC = 142.5693W LTER = 0. LGER = 0.  
AIR TEMP = BARUM = 1029.2 WIND = SPEED =

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND	TEMP.	SALIN	RUT NUM	BUT NUM
0.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
1.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
1.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
2.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
2.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
3.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
3.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
4.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
4.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
5.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
5.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
6.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
6.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
7.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
7.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
8.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
8.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
9.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
9.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
10.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
10.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
11.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
11.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
12.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
12.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
13.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
13.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
14.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
14.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
15.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
15.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
16.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
16.5	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	2
17.0	71.1	67.1	33.3	4.5	9.8	0.0	0.0	-1.66	34.31	1	

DEPTH	TEMP	PLEM	SALIN	SIG T	SPVOL	DYNHT	SOUND	TEMP.	DEPTH	NUM	NUM	SAI.IN
00	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
05	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
10	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
15	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
20	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
25	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
30	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
35	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
40	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
45	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
50	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
55	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
60	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
65	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
70	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
75	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
80	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
85	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
90	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
95	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32
100	88.88	88.88	76.00	2.22	5.11	0.00	4.44	-1.65	4.32	1	2	30.32

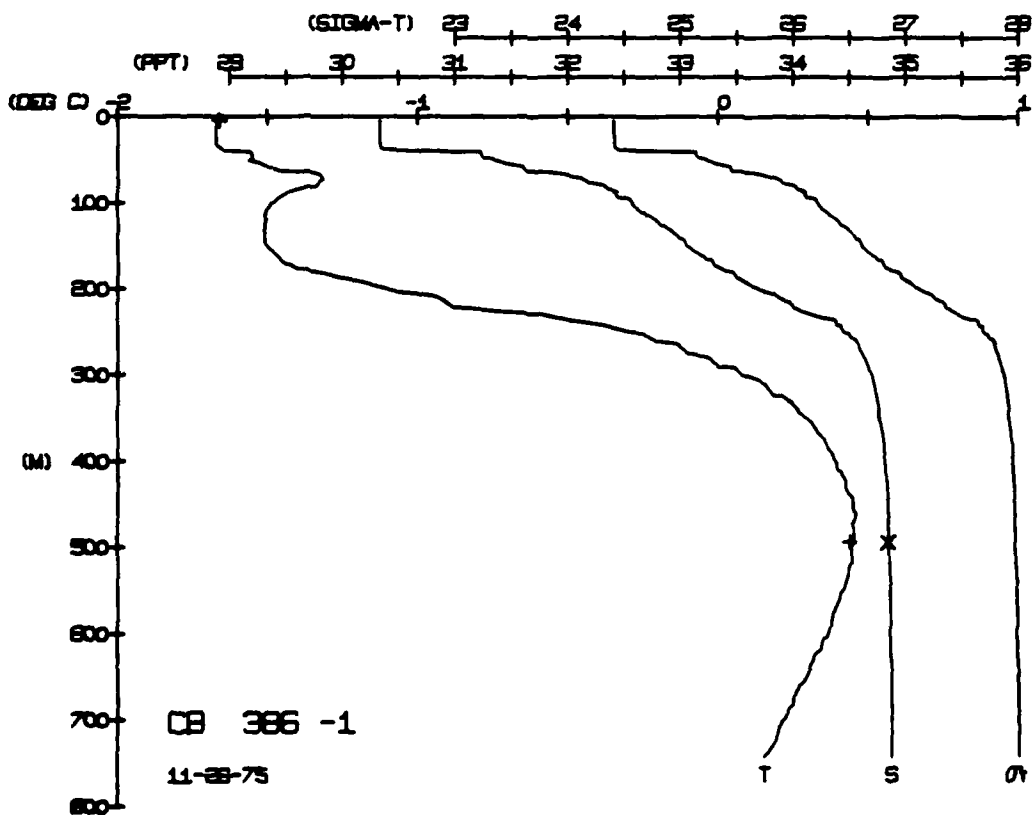
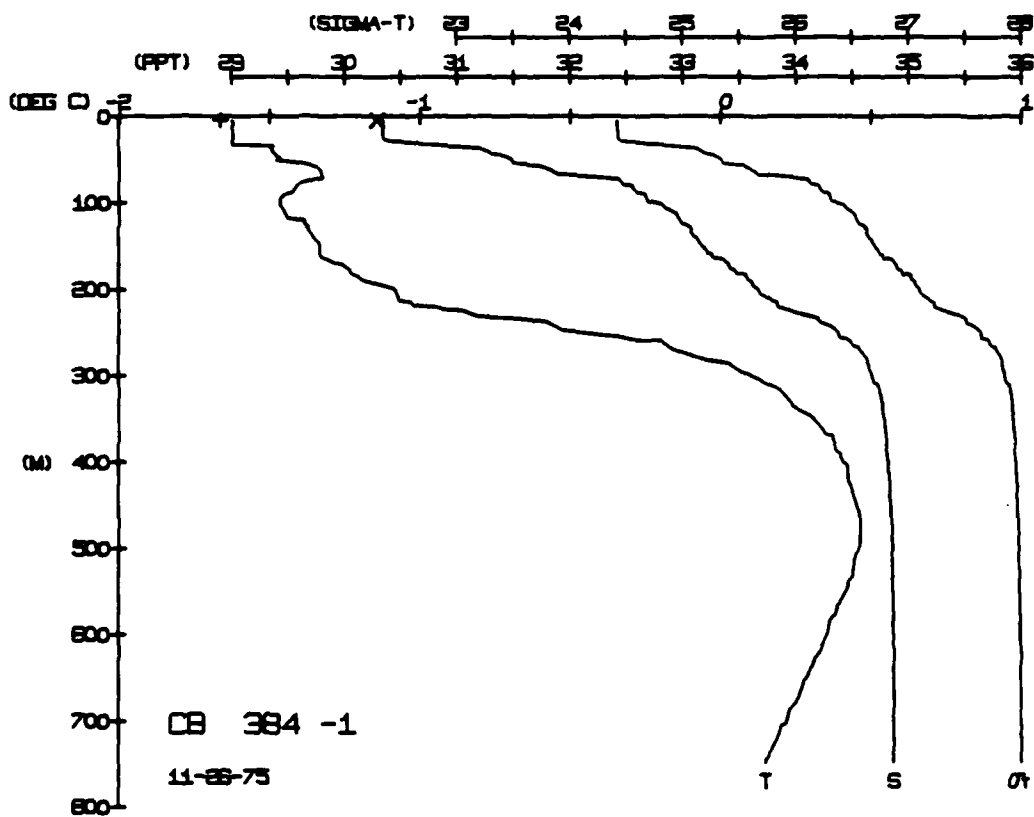


SCARIBOU STATION 386(1) STD 26/NOV/1975 1812 GMT CODE = 2  
LAT = 73.1095N LNG = 142.8450W UFR = 3  
AIR TEMP = -26.5 BAROM = 1010.8 WIND = 100.9 SPEED = 71.2  
LGR = 2

[illegible]

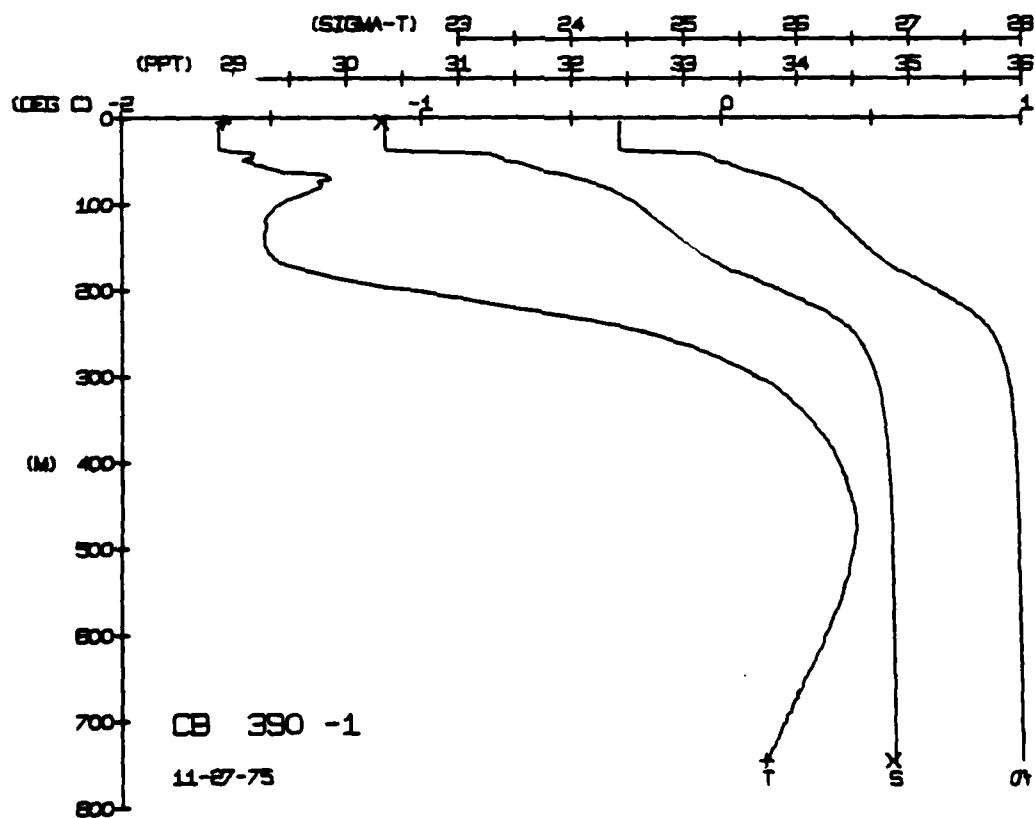
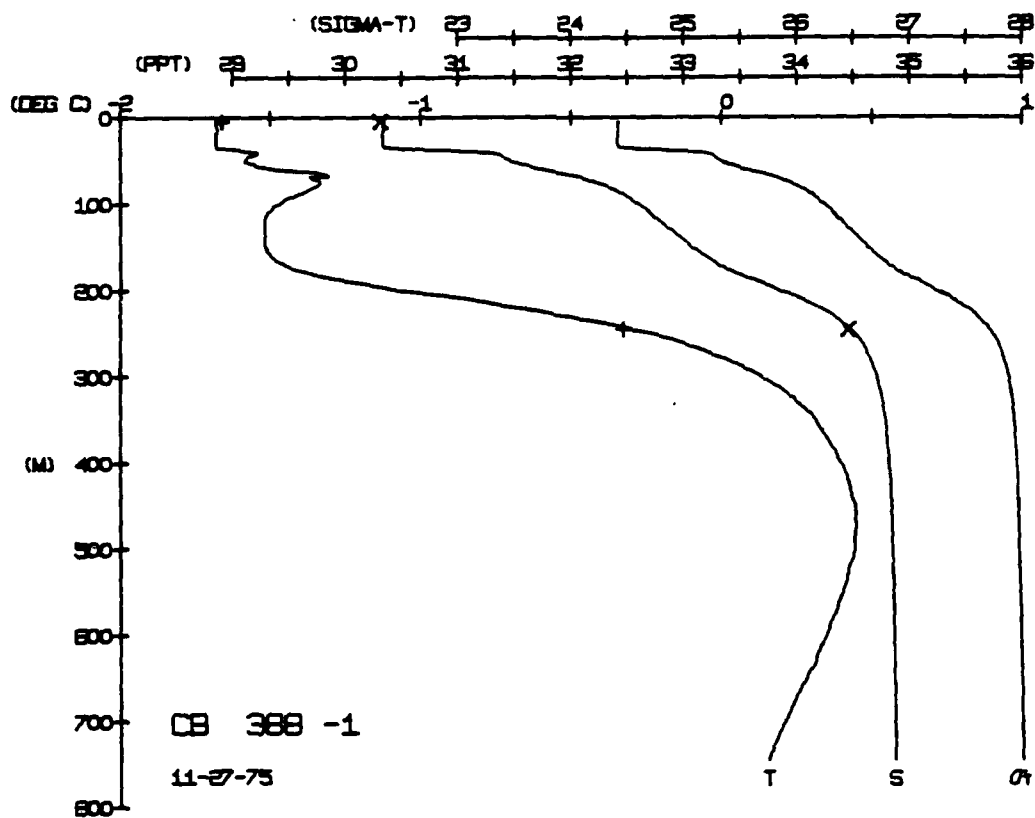
DEPTH	TEMP.	SALIN.
BUT NUM = 1	4.1	30.30

DEPTH	TEMP.	SALIN
4.3	-1.66	
497.5	0.44	34.86

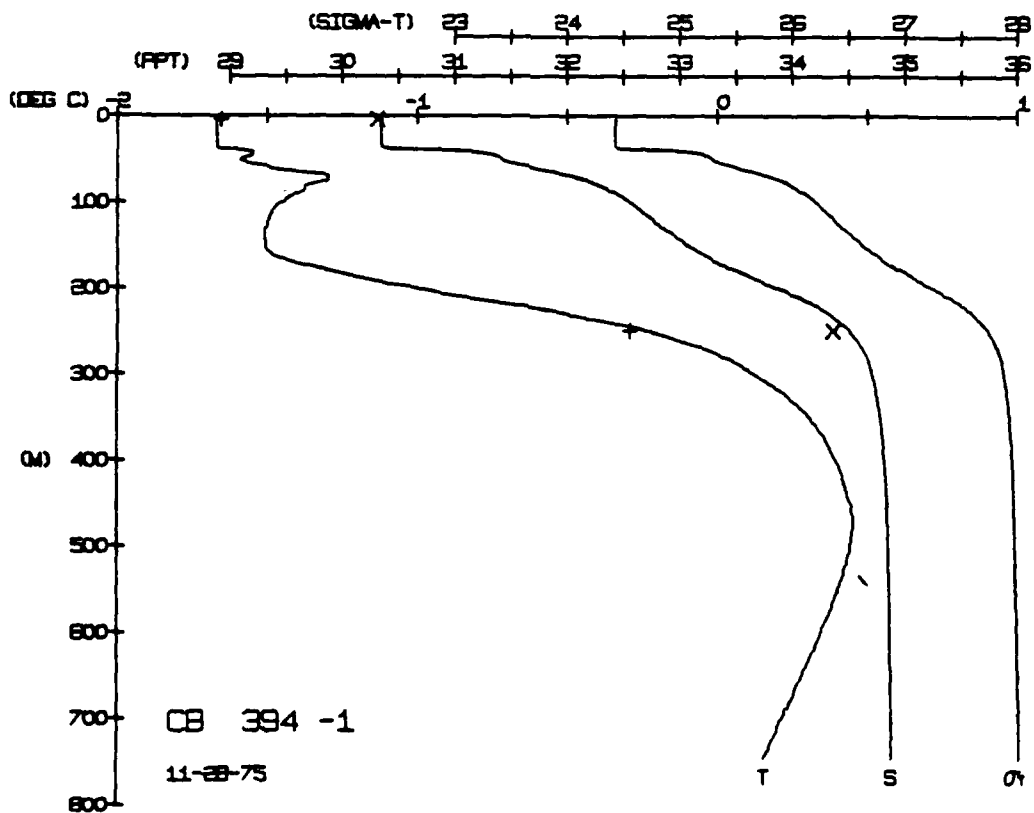
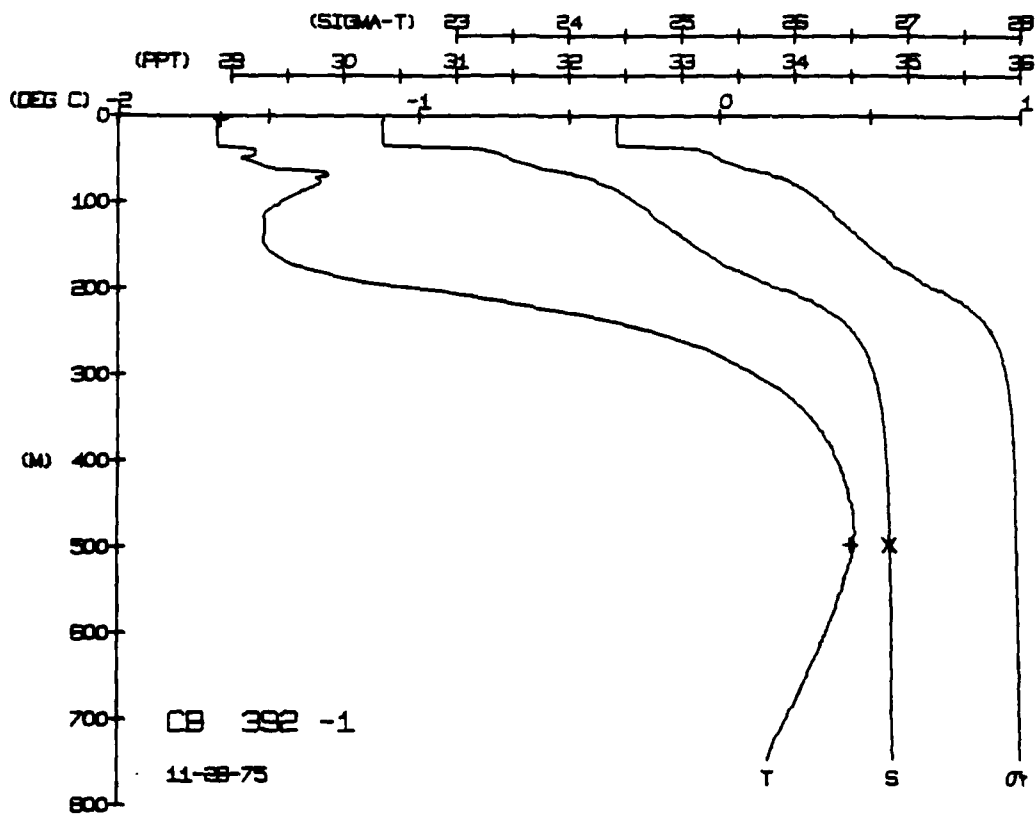




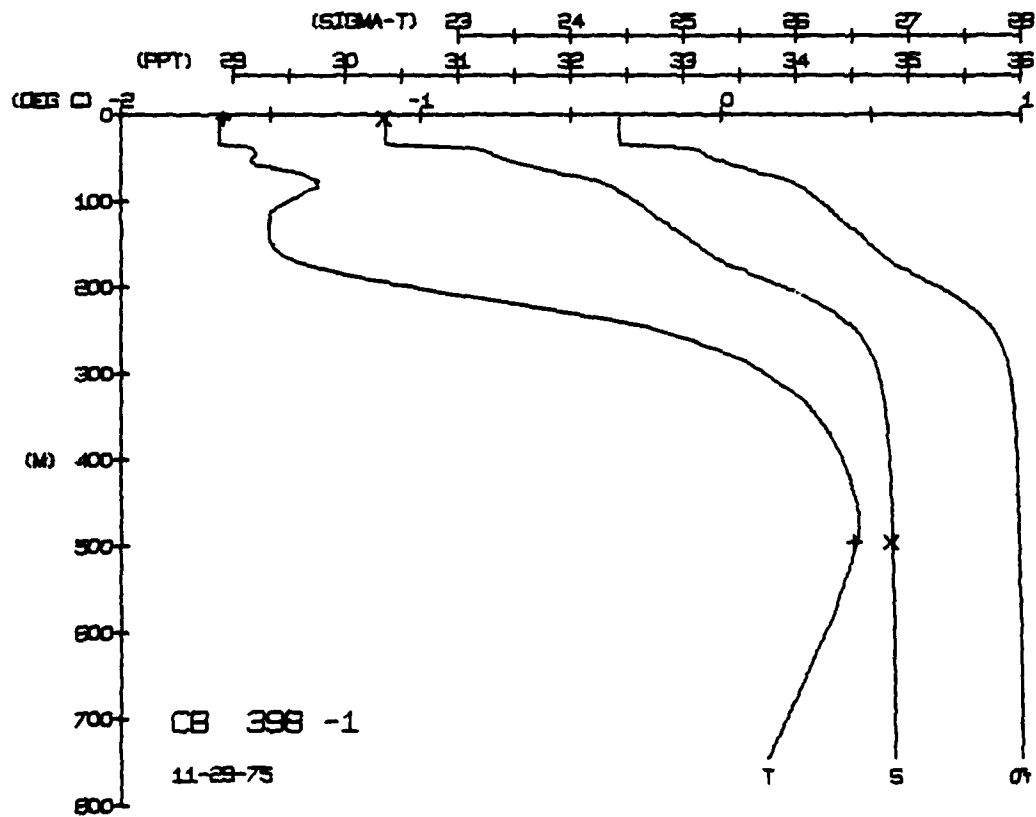
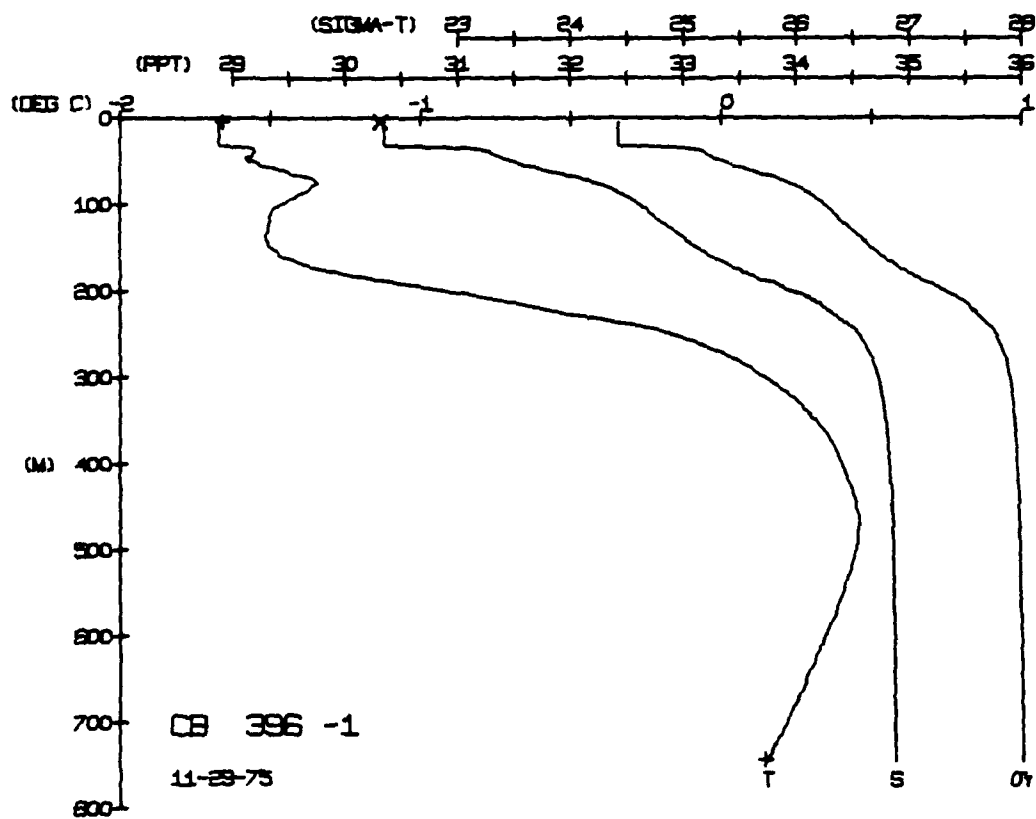




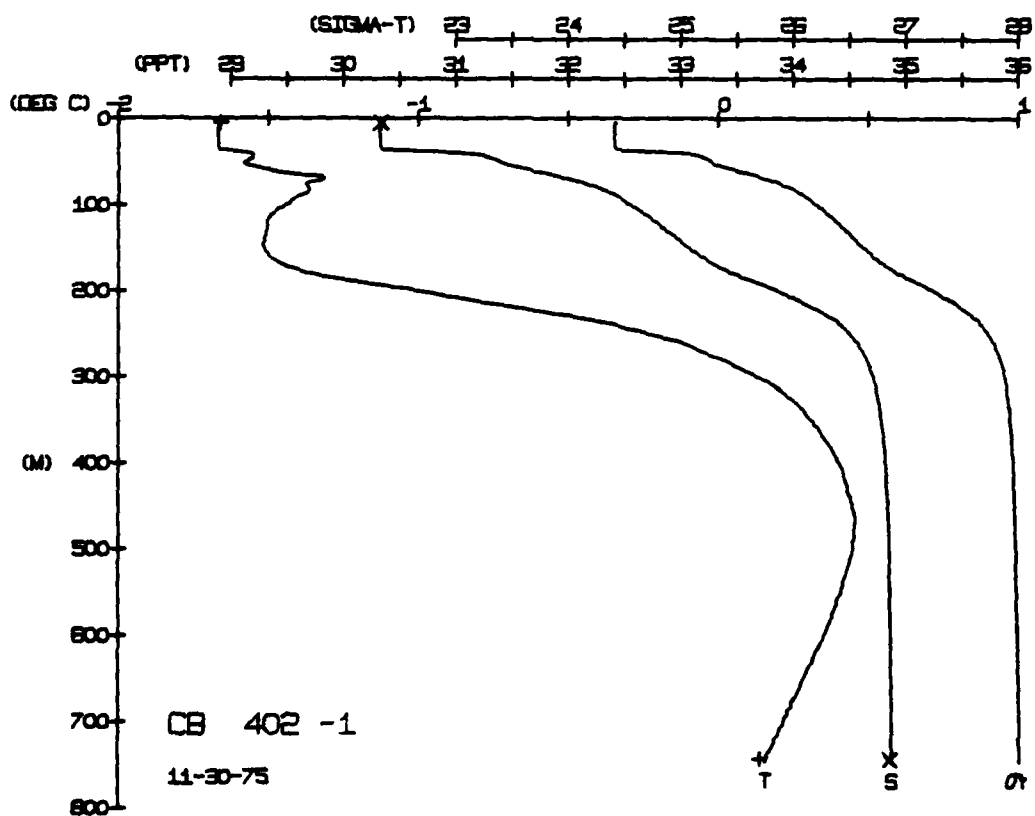
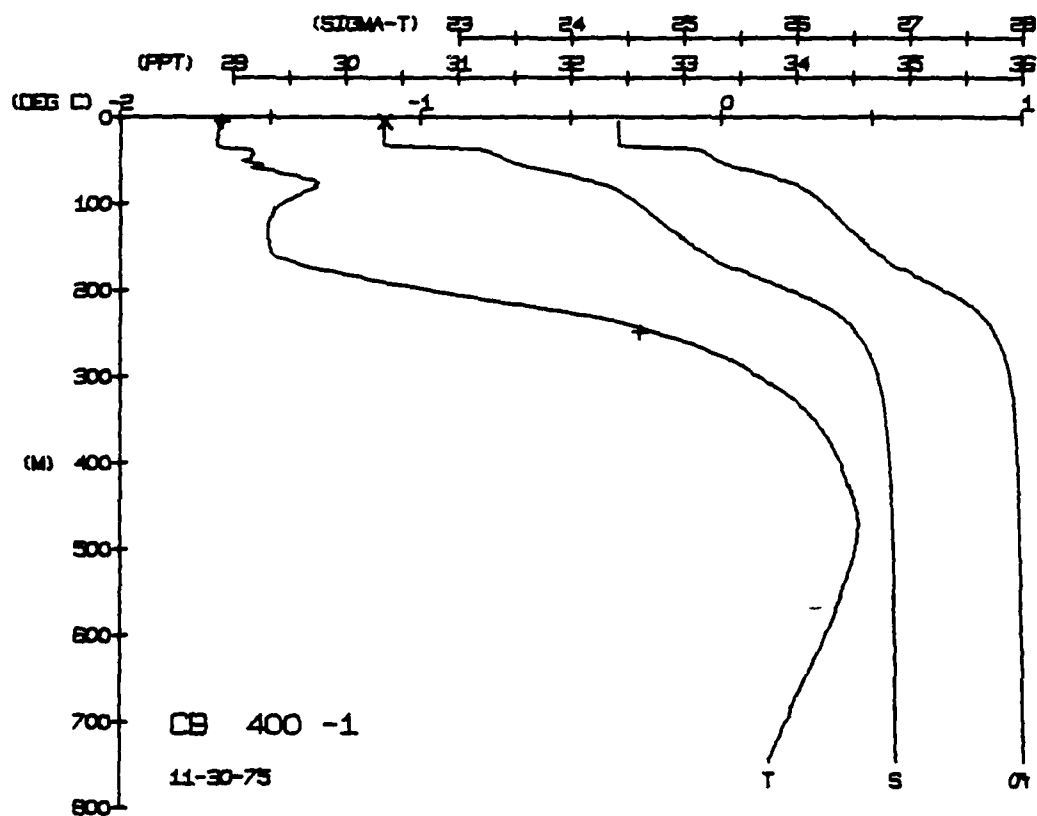








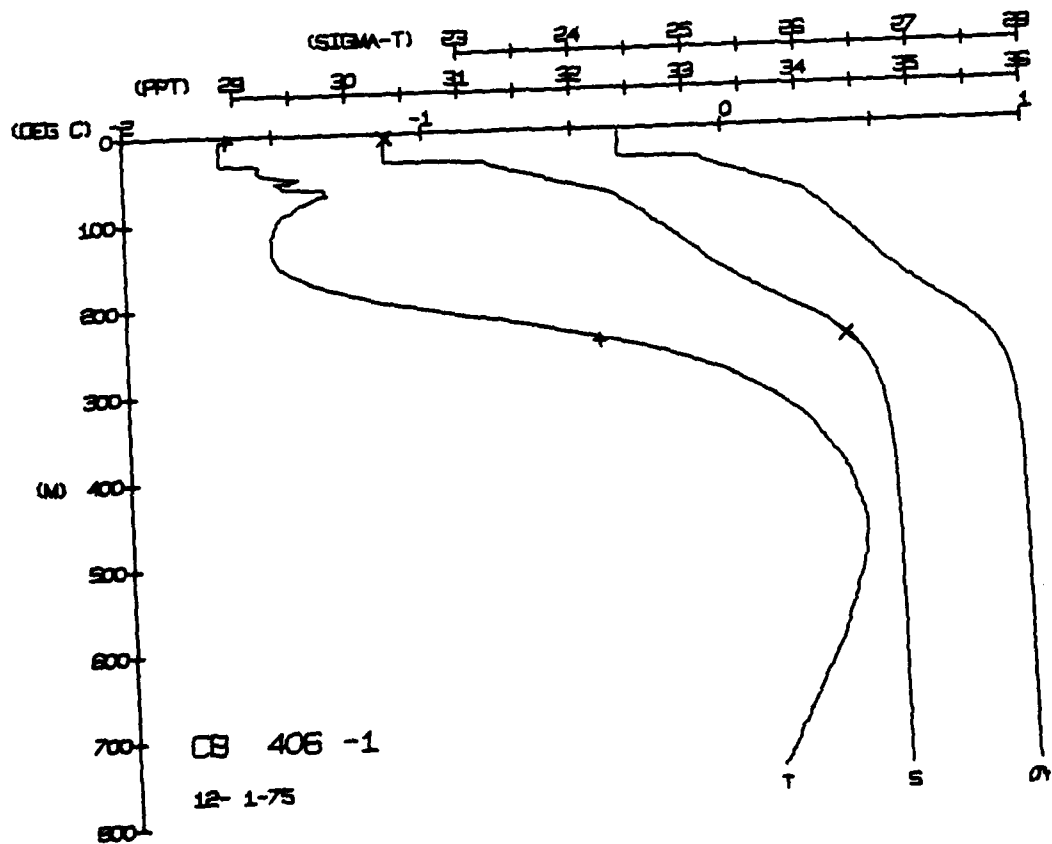
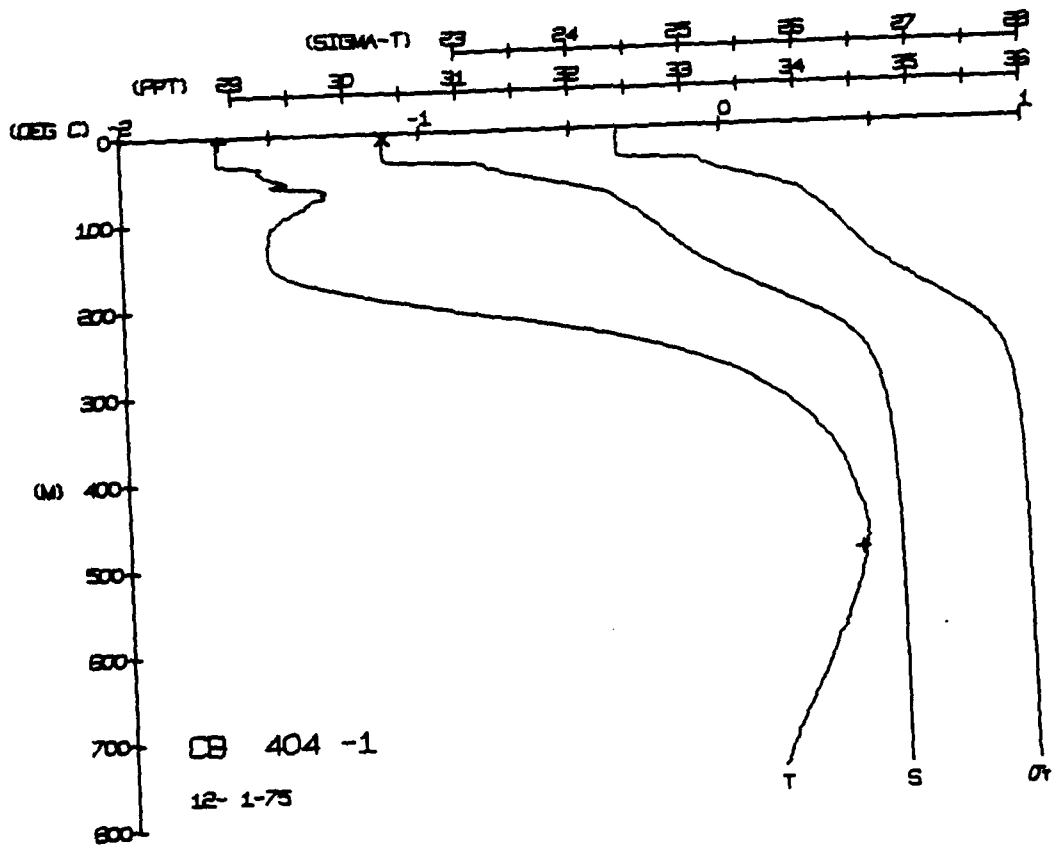




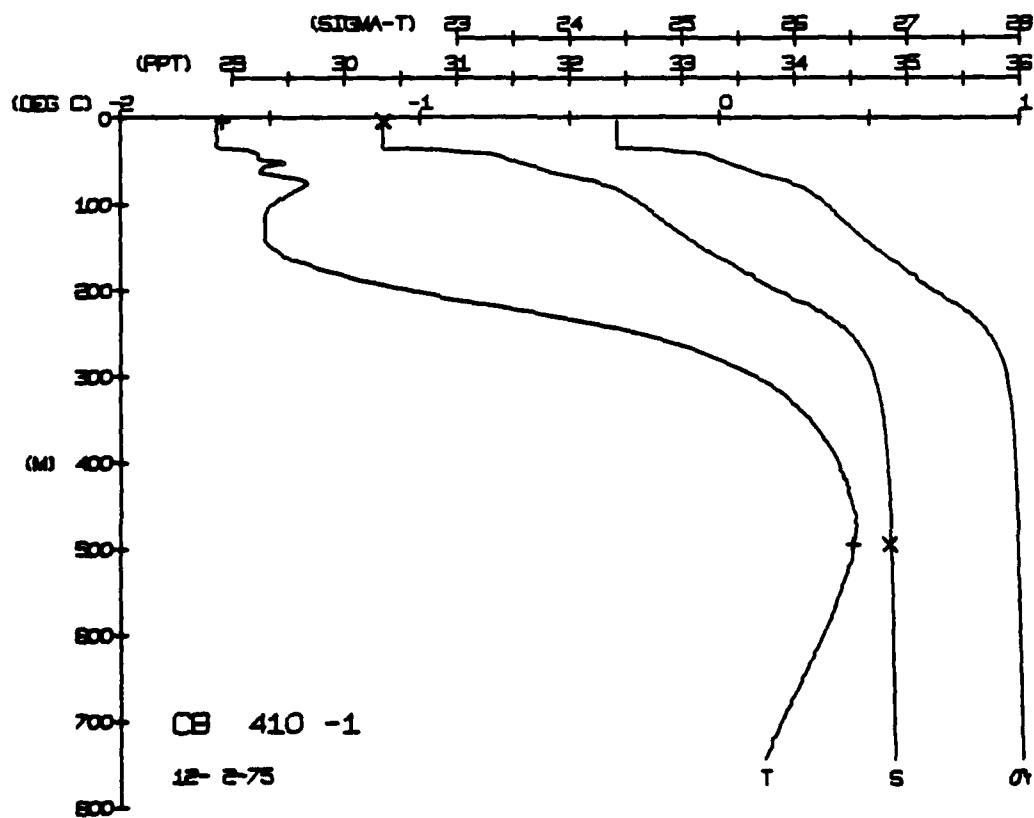
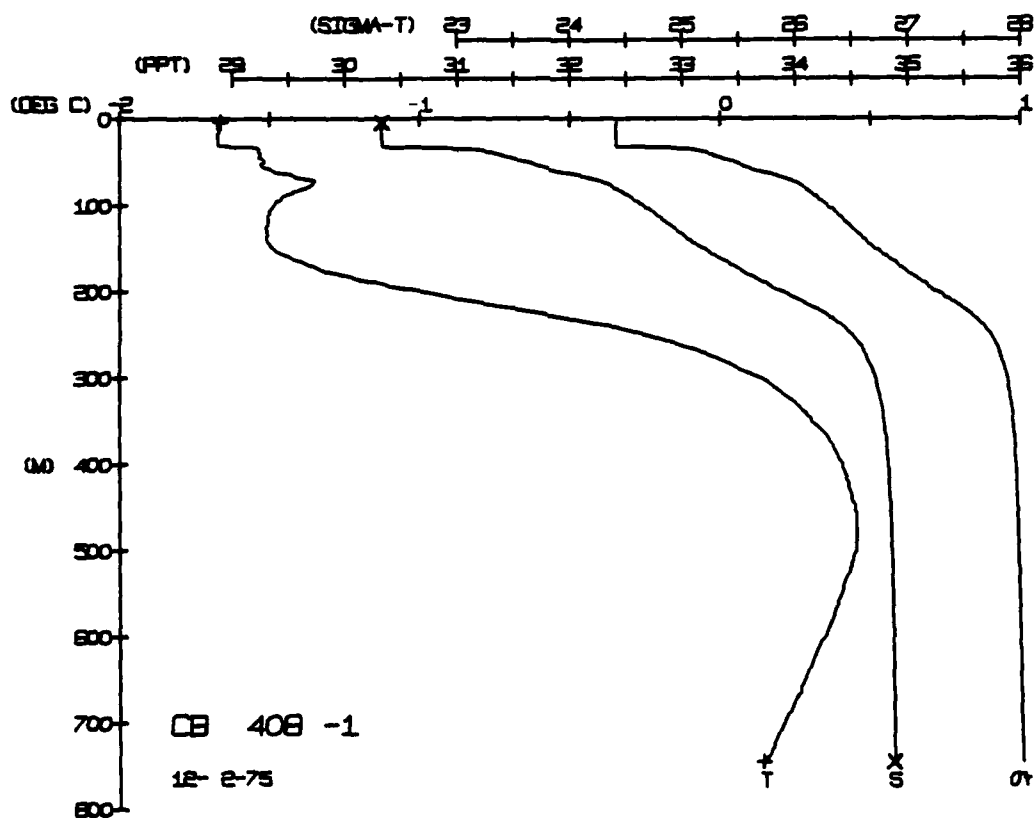


CAHABOU STATION 404(1) STD 1/DEC/1975 503 GMT CUDE = 2  
LAT = 73.189 IN LNG = 143.0536 W LTER = 94 LGER = 149  
TAIR TEMP = -31.5 BAROM = 1010.4 WIND = 259.9 SPEED = 51.9

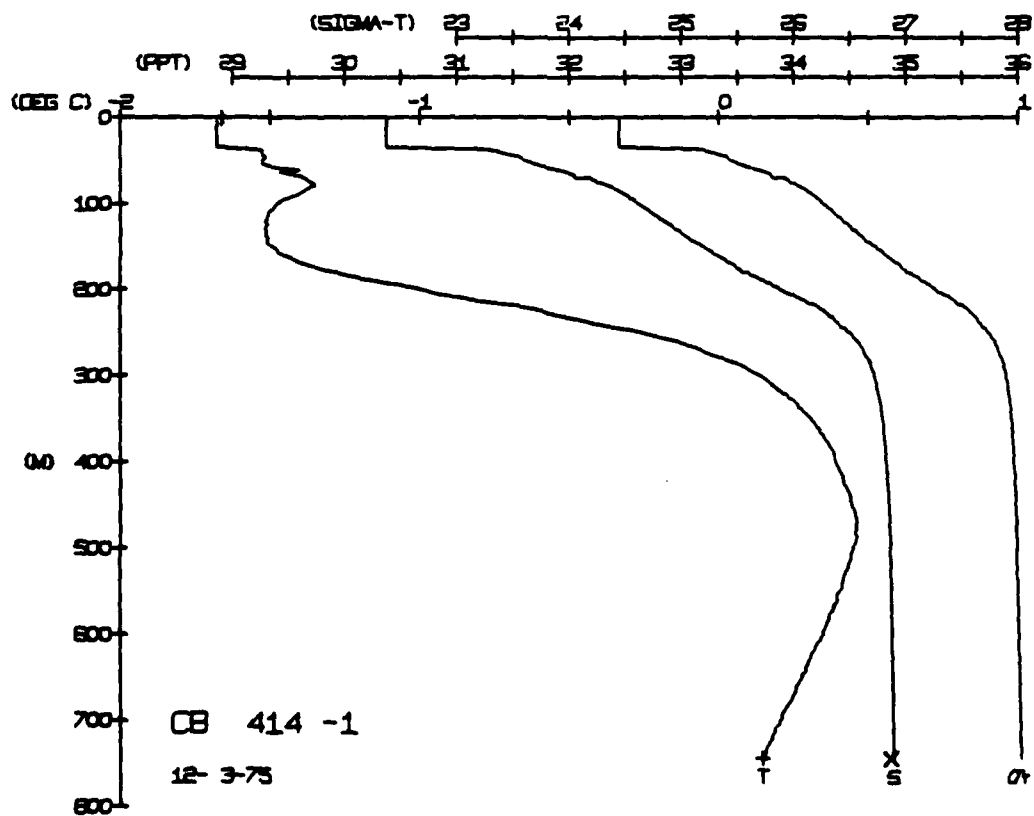
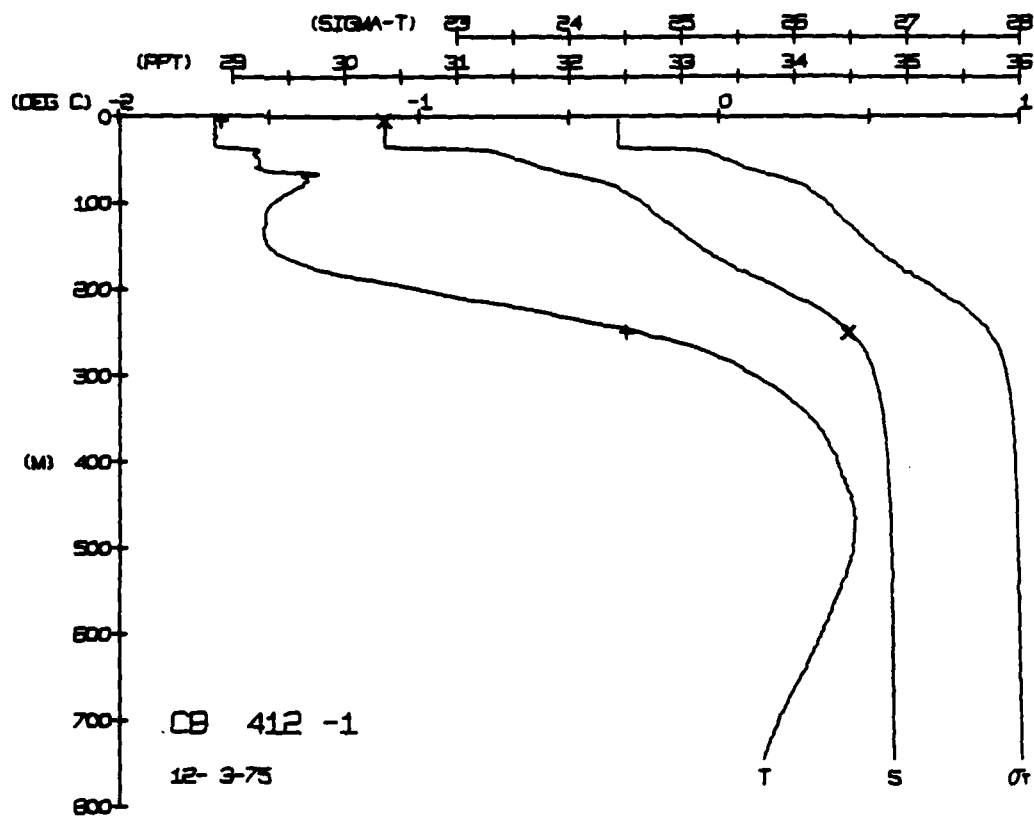
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DINH1	SALIN	TEMP.	DEPTH	BUT NUM = 1	BUT NUM
0.0	68.8	68.8	34.4	42.2	9.8	00.0	30.34	-1.67	4.7	1	1
0.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
1.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
1.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
2.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
2.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
3.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
3.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
4.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
4.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
5.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
5.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
6.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
6.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
7.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
7.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
8.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
8.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
9.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
9.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
10.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
10.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
11.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
11.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
12.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
12.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
13.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
13.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
14.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
14.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
15.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
15.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
16.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
16.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
17.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
17.5	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
18.0	68.8	68.8	34.4	42.2	1.1	00.0	30.34	-1.67	4.7	1	1
18.5	68.8	68.8	34.4	42.2	1.1						



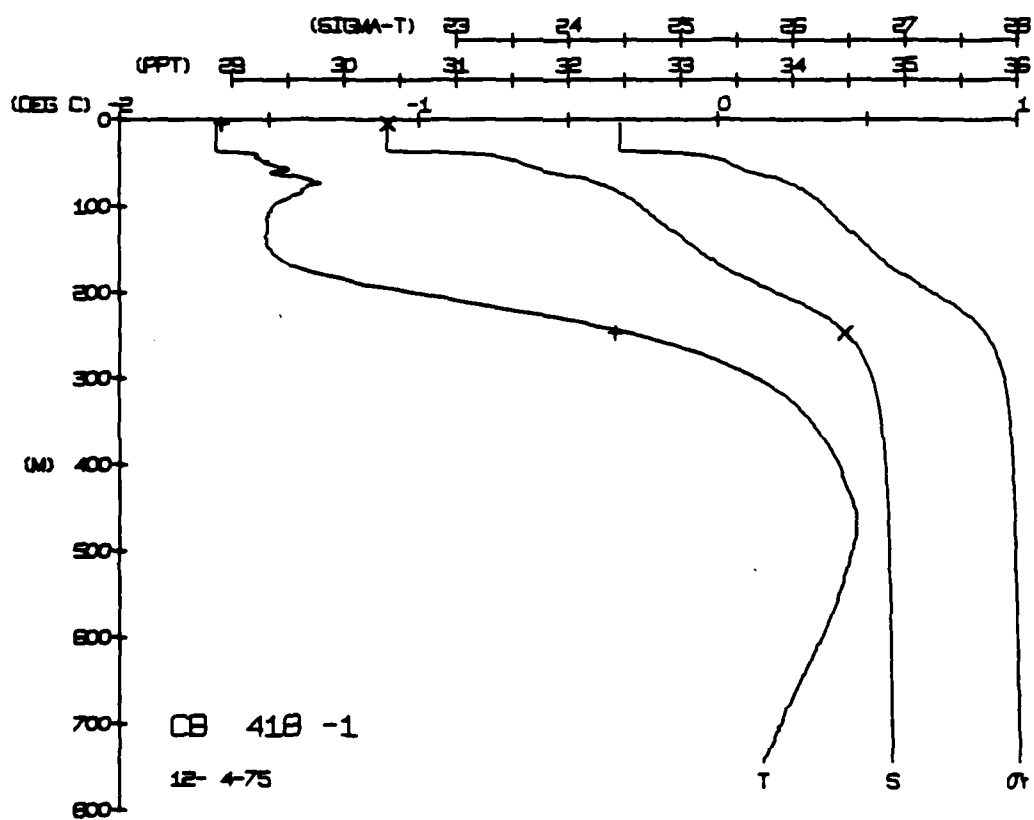
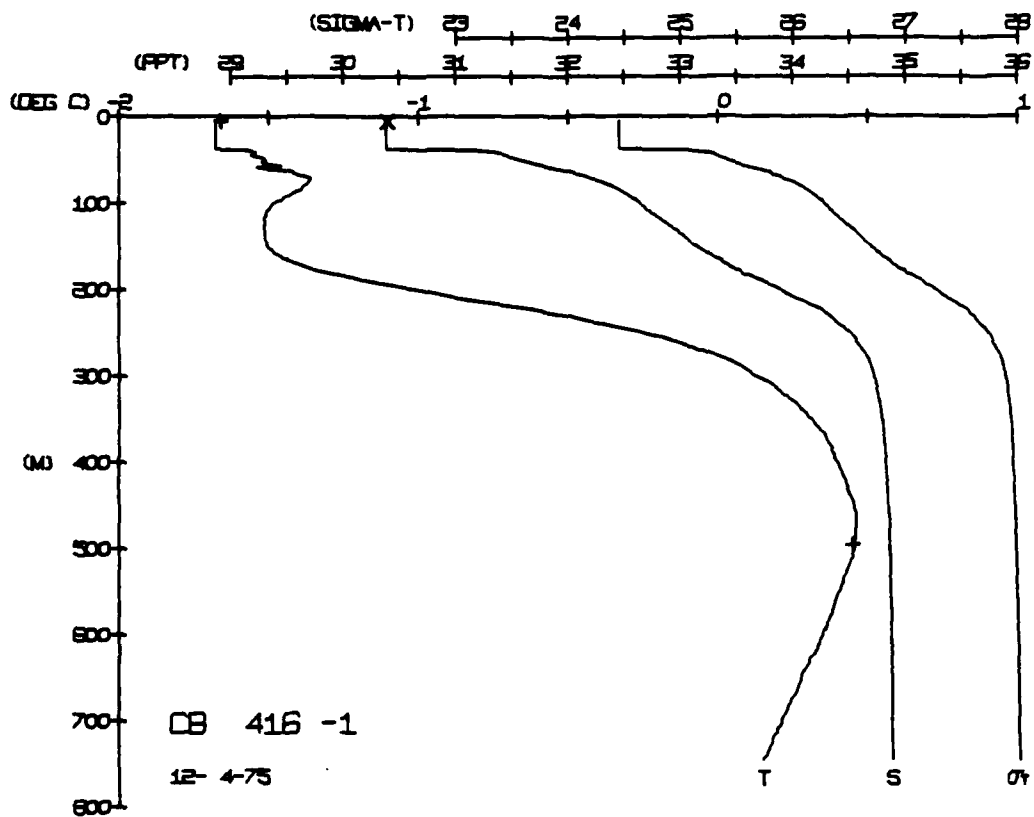








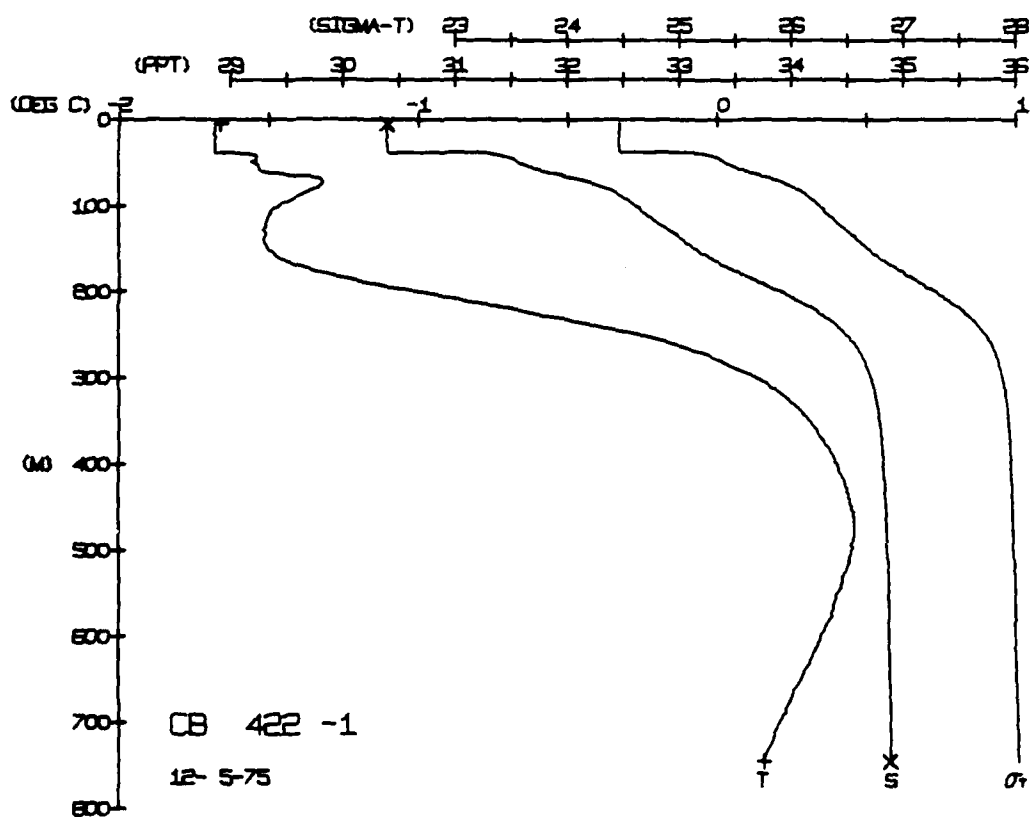
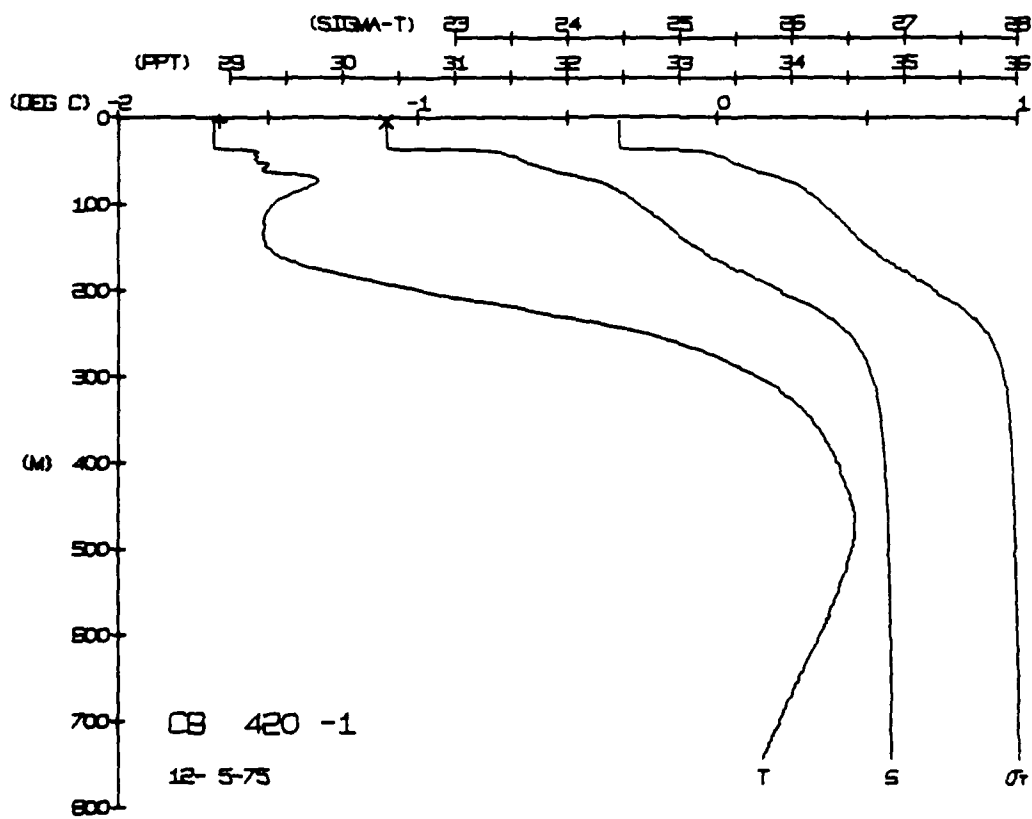






CARIBOU STATION 422(1) STD 5/DEC/1975 1804 GMT CODE = 2  
LAT = 73.0550N LONG = 142.9324W LTEN = 1. LGR = 1.  
AIR TEMP = -40.0 BARUM = 1018.3 WIND = 246.4 SPEED = 18.5

[illegible]

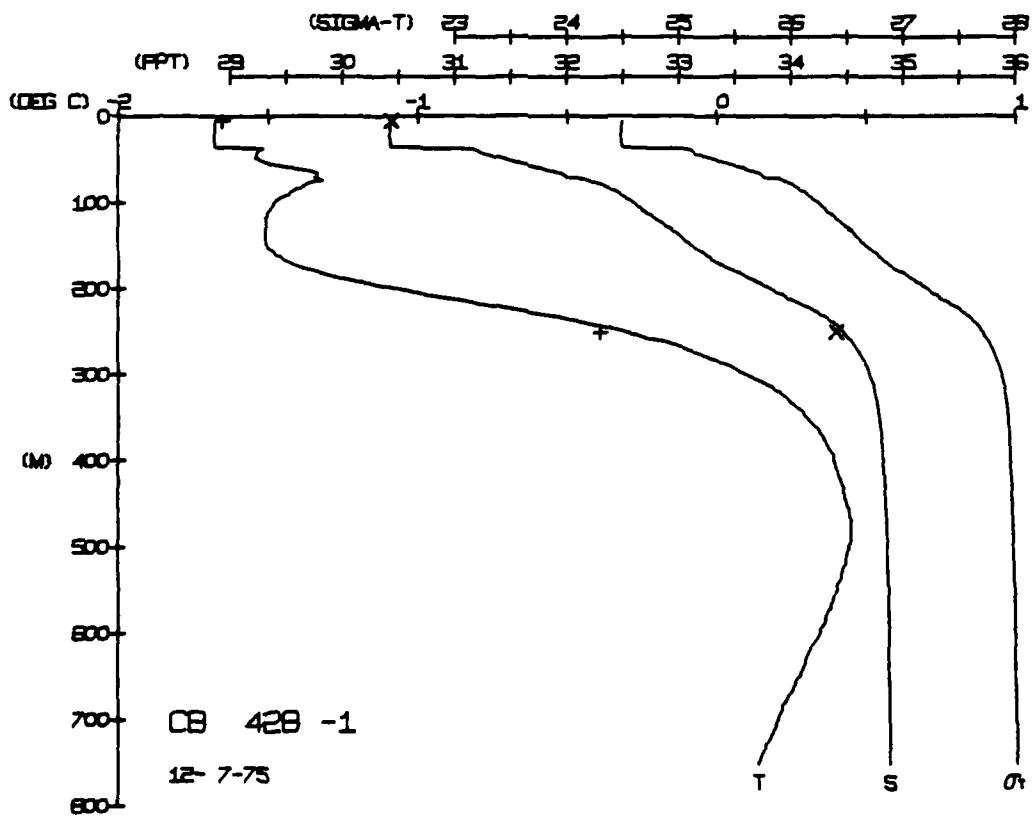
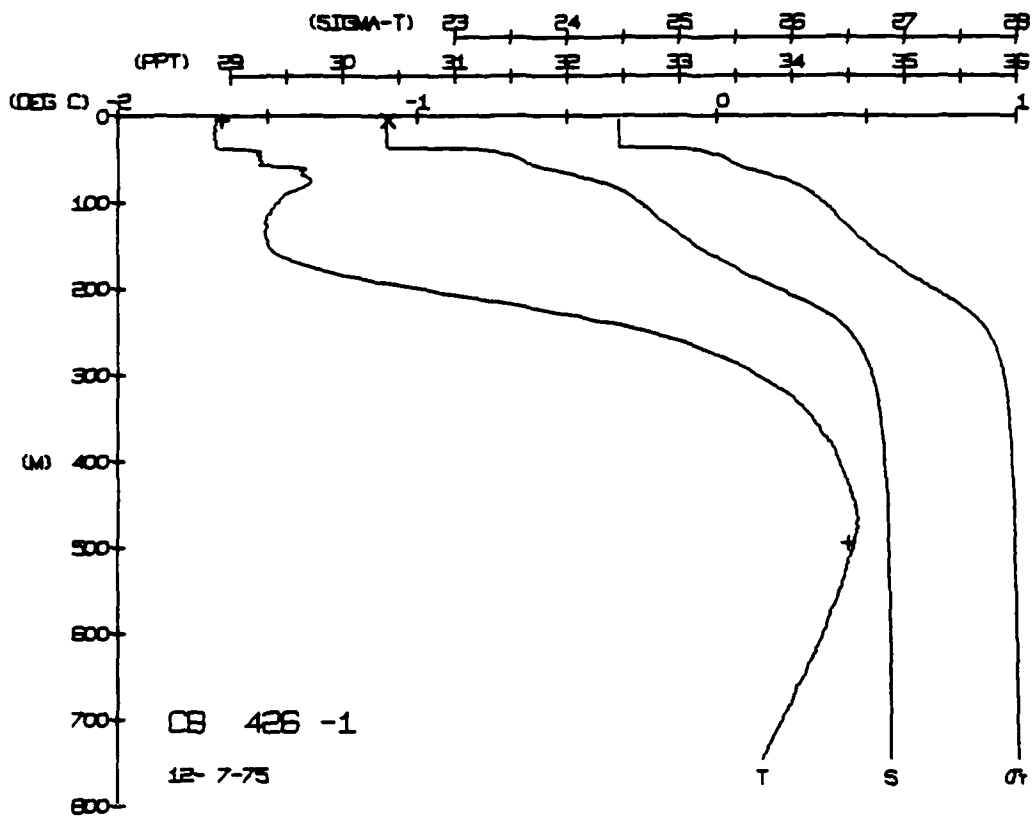


CARIBOU STATION 426(1) STD 7/DEC/1975 230 GMT C005 = 2  
LAT = 73.0520N LNG = 142.9173W LTR = 3  
AIR TEMP = -40.0 BAROM = 1020.2 WIND = 246.4 SPEED = 18.5

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVL	DINHT	SOUND
0.0	1.67	-1.67	30.39	2.46	348.0	0.000	1434.5
5.0	1.67	-1.67	30.39	2.46	348.0	0.019	1433.5
10.0	1.67	-1.67	30.39	2.46	347.7	0.035	1433.5
15.0	1.68	-1.68	30.39	2.46	347.7	0.070	1433.5
20.0	1.68	-1.68	30.39	2.46	347.7	0.085	1433.5
30.0	1.55	-1.55	30.39	2.44	346.1	0.138	1433.7
40.0	1.53	-1.53	30.29	2.44	346.1	0.155	1433.8
50.0	1.54	-1.54	31.56	2.55	347.4	0.165	1433.9
60.0	1.54	-1.54	31.73	2.55	347.4	0.170	1433.9
70.0	1.54	-1.54	31.98	2.57	347.4	0.190	1433.9
80.0	1.38	-1.38	32.37	2.65	347.4	0.214	1440.0
90.0	1.44	-1.44	32.64	2.66	347.4	0.234	1440.0
100.0	1.47	-1.47	32.72	2.66	347.4	0.252	1440.0
110.0	1.49	-1.49	32.82	2.66	346.5	0.285	1444.1
120.0	1.50	-1.50	32.93	2.66	346.5	0.320	1444.1
130.0	1.51	-1.51	33.16	2.66	346.5	0.355	1444.1
140.0	1.41	-1.41	33.54	2.77	345.5	0.377	1444.1
150.0	1.31	-1.31	33.71	2.77	345.5	0.397	1444.1
160.0	1.18	-1.18	33.83	2.71	345.5	0.405	1444.6
170.0	1.05	-1.05	34.03	2.71	345.5	0.413	1444.6
180.0	0.98	-0.98	34.14	2.71	345.5	0.425	1444.6
190.0	0.92	-0.92	34.14	2.71	345.5	0.437	1444.6
200.0	0.87	-0.87	34.45	2.71	345.5	0.449	1451.0
210.0	0.84	-0.84	34.51	2.71	345.5	0.457	1452.0
220.0	0.81	-0.81	34.62	2.71	345.5	0.464	1452.0
230.0	0.79	-0.79	34.69	2.71	345.5	0.466	1453.4
240.0	0.77	-0.77	34.74	2.71	345.5	0.475	1453.4
250.0	0.74	-0.74	34.76	2.71	345.5	0.479	1455.4
260.0	0.71	-0.71	34.79	2.71	345.5	0.485	1455.4
270.0	0.68	-0.68	34.80	2.71	345.5	0.487	1455.4
280.0	0.66	-0.66	34.81	2.71	345.5	0.488	1456.7
290.0	0.63	-0.63	34.84	2.71	345.5	0.464	1457.7
300.0	0.60	-0.60	34.85	2.71	345.5	0.467	1457.7
310.0	0.57	-0.57	34.86	2.71	345.5	0.473	1458.8
320.0	0.54	-0.54	34.87	2.71	345.5	0.478	1458.8
330.0	0.51	-0.51	34.87	2.71	345.5	0.483	1459.9
340.0	0.49	-0.49	34.88	2.71	345.5	0.486	1459.9
350.0	0.46	-0.46	34.88	2.71	345.5	0.488	1460.0
360.0	0.43	-0.43	34.88	2.71	345.5	0.493	1460.0
370.0	0.40	-0.40	34.88	2.71	345.5	0.495	1460.0
380.0	0.37	-0.37	34.89	2.71	345.5	0.497	1461.1
390.0	0.34	-0.34	34.89	2.71	345.5	0.499	1461.1
400.0	0.31	-0.31	34.89	2.71	345.5	0.501	1461.1
410.0	0.29	-0.29	34.89	2.71	345.5	0.503	1462.2
420.0	0.26	-0.26	34.89	2.71	345.5	0.506	1462.2
430.0	0.23	-0.23	34.89	2.71	345.5	0.506	1462.2
440.0	0.21	-0.21	34.89	2.71	345.5	0.506	1462.2
450.0	0.15	-0.15	34.89	2.71	345.5	0.506	1462.2

HIT	NUM	=	1
HIT	NUM	=	2

DEPTH	TEMP.	SALIN
4.5	-1.65	30.40
495.0	0.44	

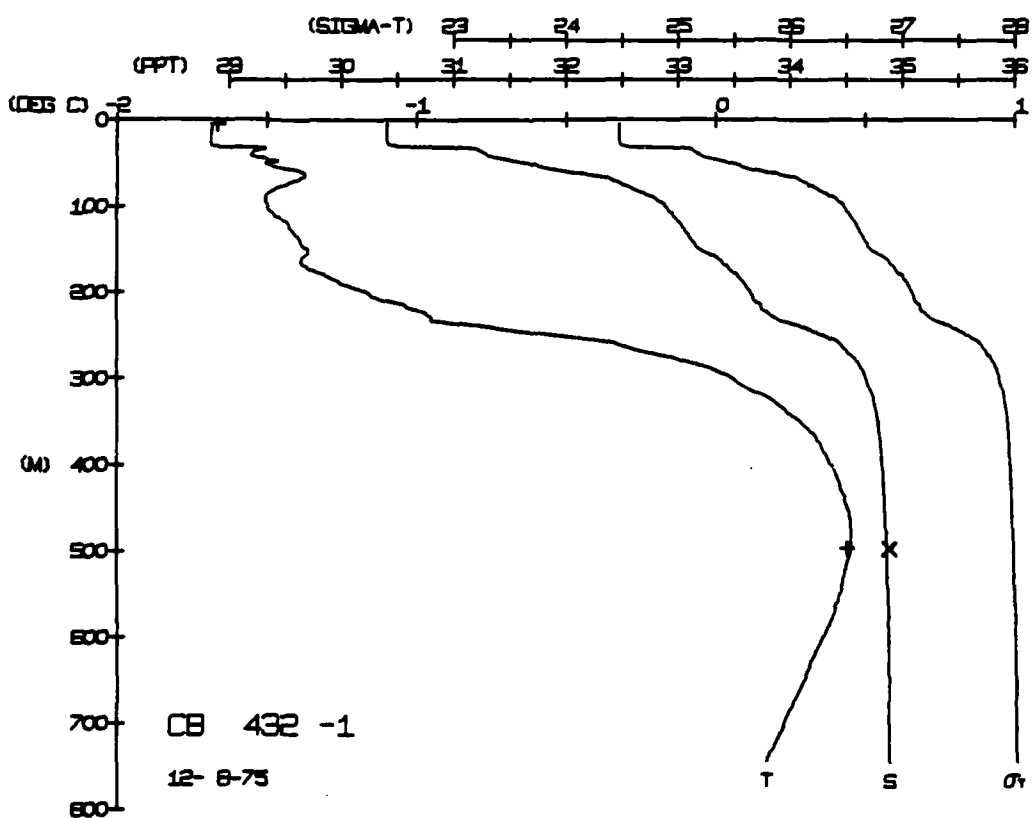
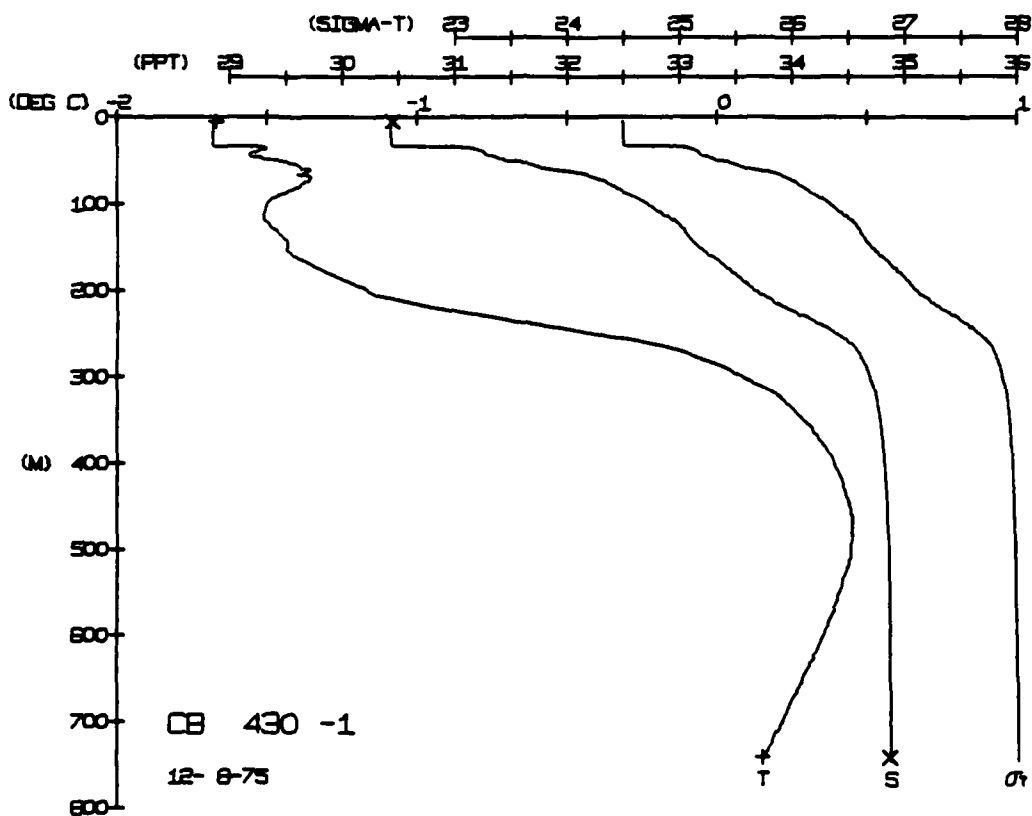


CARIBOU STATION 432(1) STD 8/DEC/1975 1800 GMT CODE = 2  
LAT = 73.1528N LNG = 142.8661W LTER = 1. LGER = 1.  
AIR TEMP = -30.6 BARUM = 1020.5 WIND = 114.7 SPEED = 66.8

[illegible]

DEPTH	TEMP.	SALIN.
5.0	-1.67	30.44
741.5	0.16	34.88

	DEPTH	TEMP.	SALIN
BOT NUM = 1	4.5	-1.56	
HOT NUM = 2	496.4	0.44	34.89

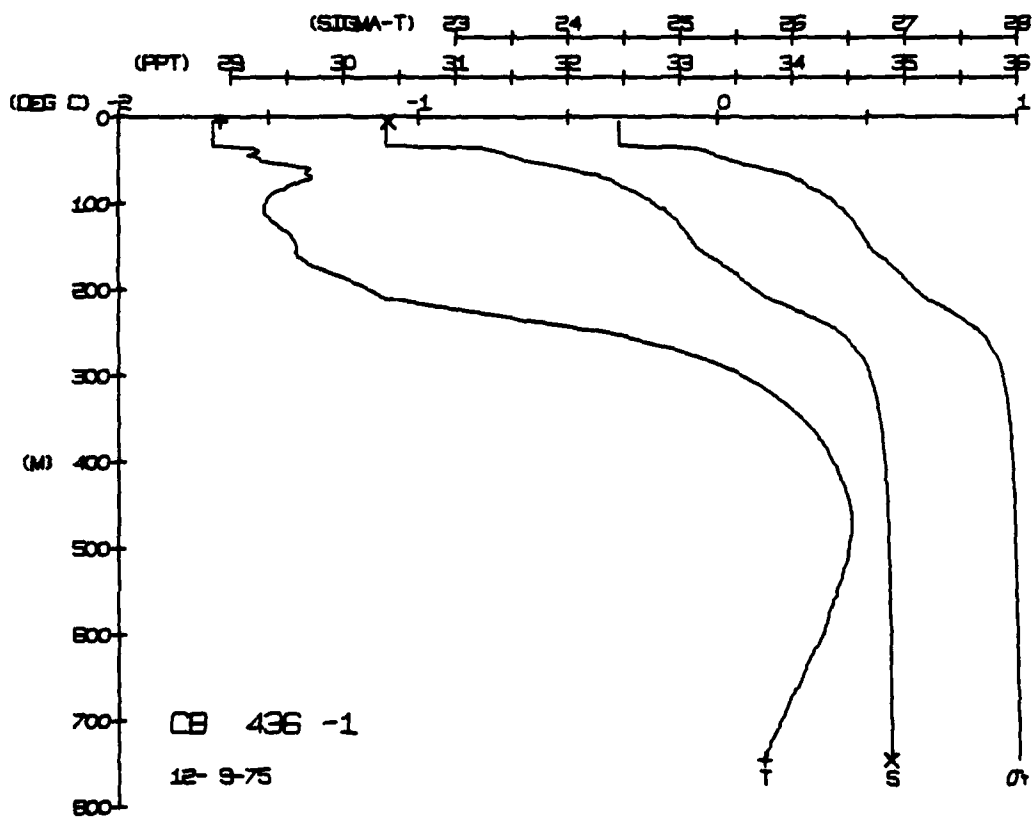
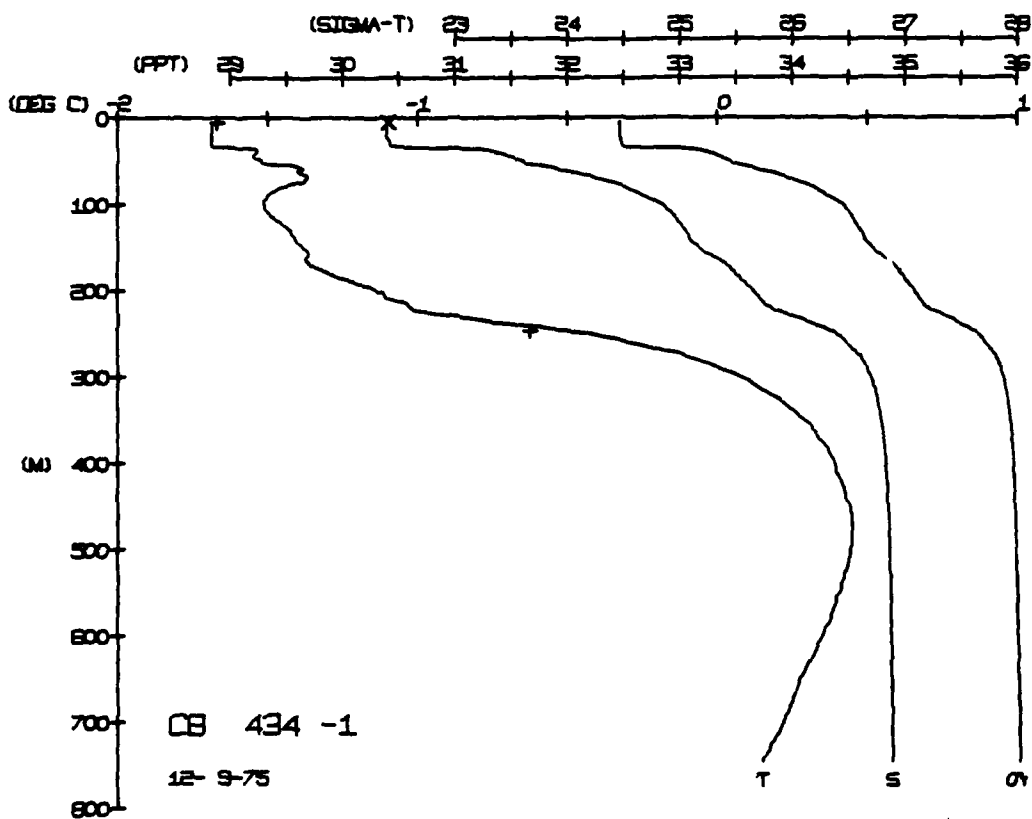


CARIBOU STATION 436(1) STD 9/DEC/1975 1824 GMT CODE = 2  
LAT = 73.1322N LNG = 142.9611W LTER = 102 LGEK = 159  
AIR TEMP = -37.0 BAROM = 1032.7 WIND = 204.8 SPEED = 28.4

[illegible]

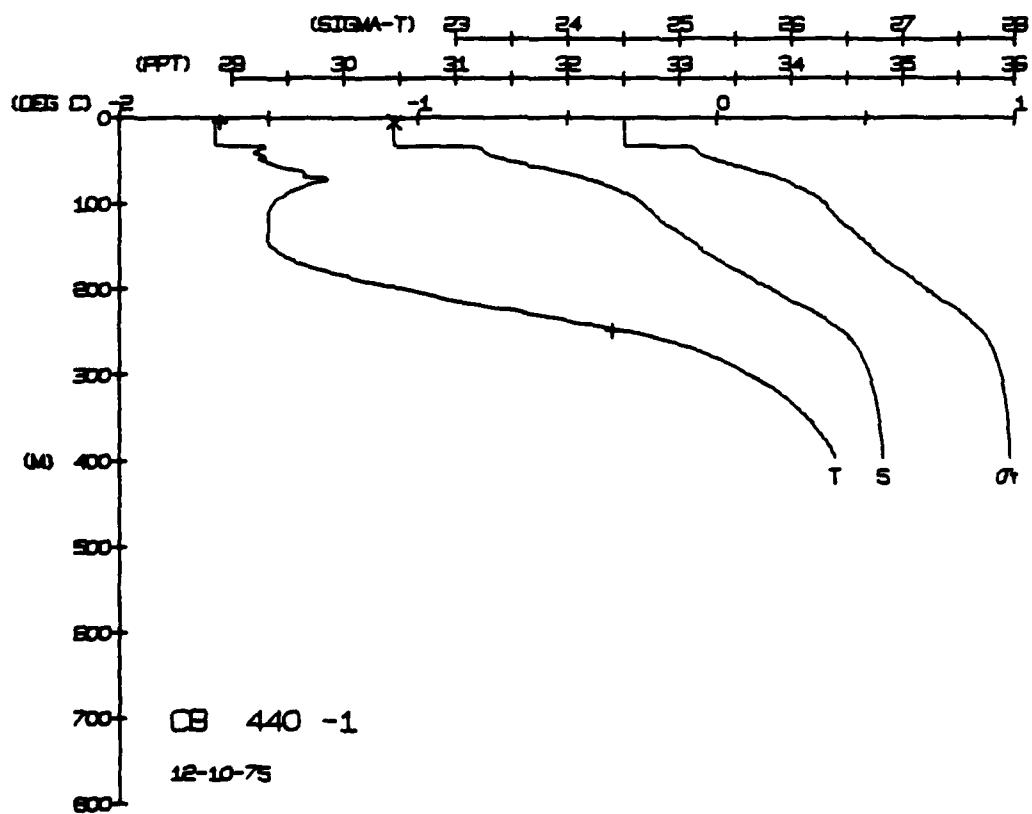
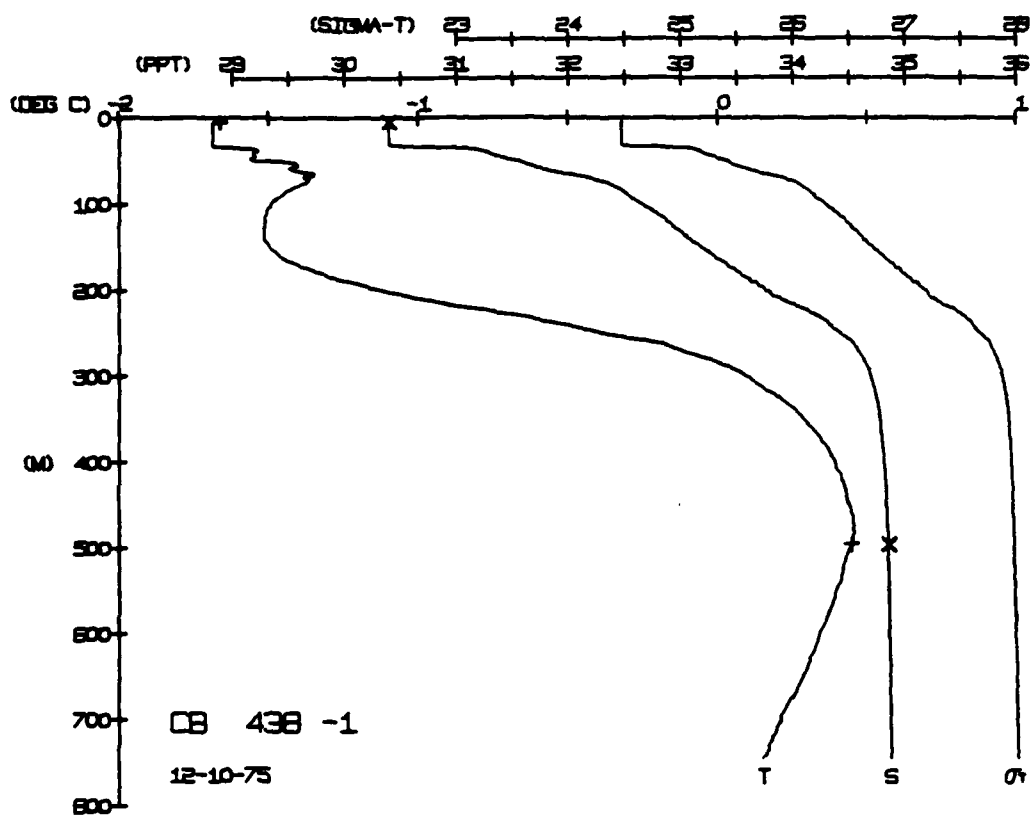
	DEPTH	TEMP.	SALIN.
BUT NUM = 1	4.9	-1.67	30.40
BUT NUM = 2	247.4	-0.63	

	DEPTH	TEMP.	SALIN.
BT NUM = 1	4.7	-1.66	30.39
HT NUM = 2	745.3	0.16	34.88









CARIBUO STATION 441(1) STD 21/DEC/1975 628 GMT CODE = 2  
LAT = 73.024N LNG = 143.333W LTER = 0 USER = 0  
AIR TEMP = -30.0 WIND = 101.3 WIND = 267.7 SPEED = 73.4

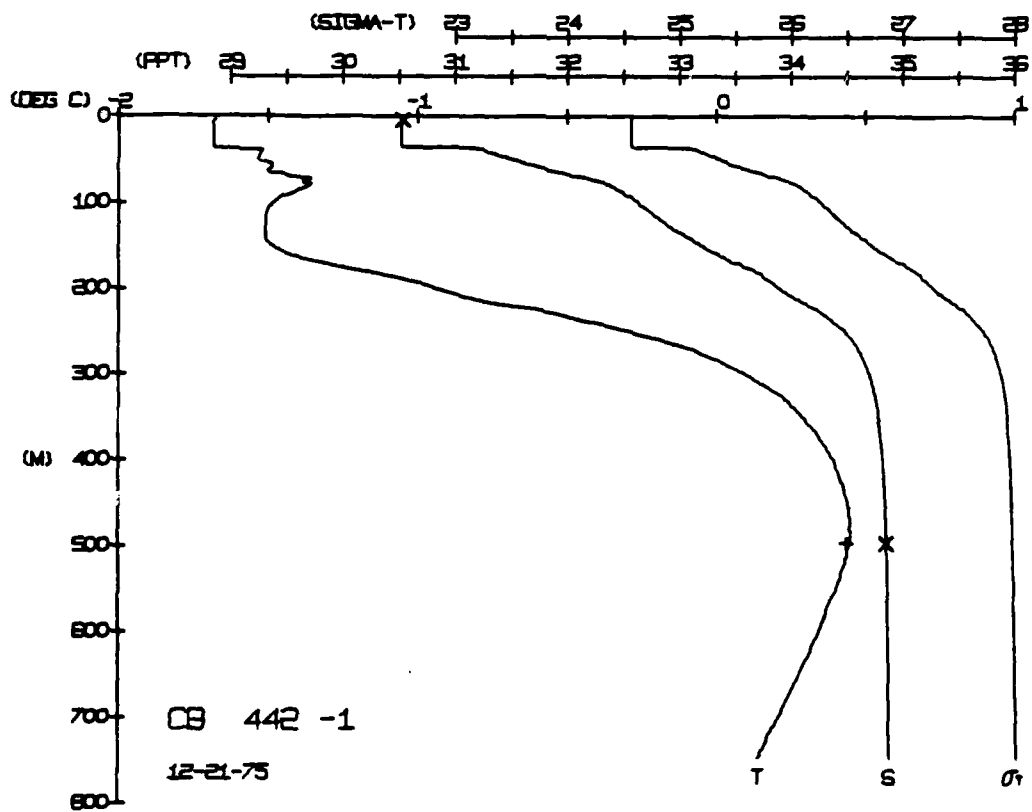
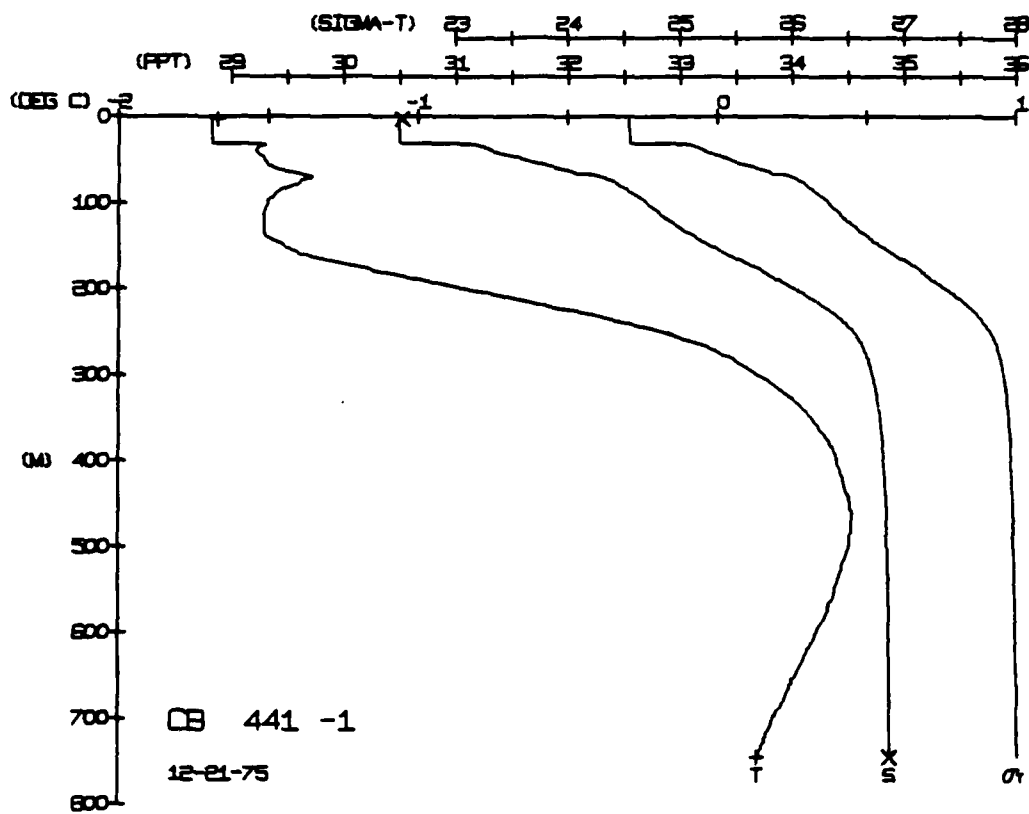
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	55	55	30	44	33	00	14335
10	55	55	30	44	33	00	14335
20	55	55	30	44	33	00	14335
30	55	55	30	44	33	00	14335
40	55	55	30	44	33	00	14335
50	55	55	30	44	33	00	14335
60	55	55	30	44	33	00	14335
70	55	55	30	44	33	00	14335
80	55	55	30	44	33	00	14335
90	55	55	30	44	33	00	14335
100	55	55	30	44	33	00	14335
110	55	55	30	44	33	00	14335
120	55	55	30	44	33	00	14335
130	55	55	30	44	33	00	14335
140	55	55	30	44	33	00	14335
150	55	55	30	44	33	00	14335
160	55	55	30	44	33	00	14335
170	55	55	30	44	33	00	14335
180	55	55	30	44	33	00	14335
190	55	55	30	44	33	00	14335
200	55	55	30	44	33	00	14335
210	55	55	30	44	33	00	14335
220	55	55	30	44	33	00	14335
230	55	55	30	44	33	00	14335
240	55	55	30	44	33	00	14335
250	55	55	30	44	33	00	14335
260	55	55	30	44	33	00	14335
270	55	55	30	44	33	00	14335
280	55	55	30	44	33	00	14335
290	55	55	30	44	33	00	14335
300	55	55	30	44	33	00	14335
310	55	55	30	44	33	00	14335
320	55	55	30	44	33	00	14335
330	55	55	30	44	33	00	14335
340	55	55	30	44	33	00	14335
350	55	55	30	44	33	00	14335
360	55	55	30	44	33	00	14335
370	55	55	30	44	33	00	14335
380	55	55	30	44	33	00	14335
390	55	55	30	44	33	00	14335
400	55	55	30	44	33	00	14335
410	55	55	30	44	33	00	14335
420	55	55	30	44	33	00	14335
430	55	55	30	44	33	00	14335
440	55	55	30	44	33	00	14335
450	55	55	30	44	33	00	14335
460	55	55	30	44	33	00	14335
470	55	55	30	44	33	00	14335
480	55	55	30	44	33	00	14335
490	55	55	30	44	33	00	14335
500	55	55	30	44	33	00	14335

DEPTH 2.2  
TEMP -1.67  
SALIN 30.52  
BOT NUM = 1  
BOT NUM = 2

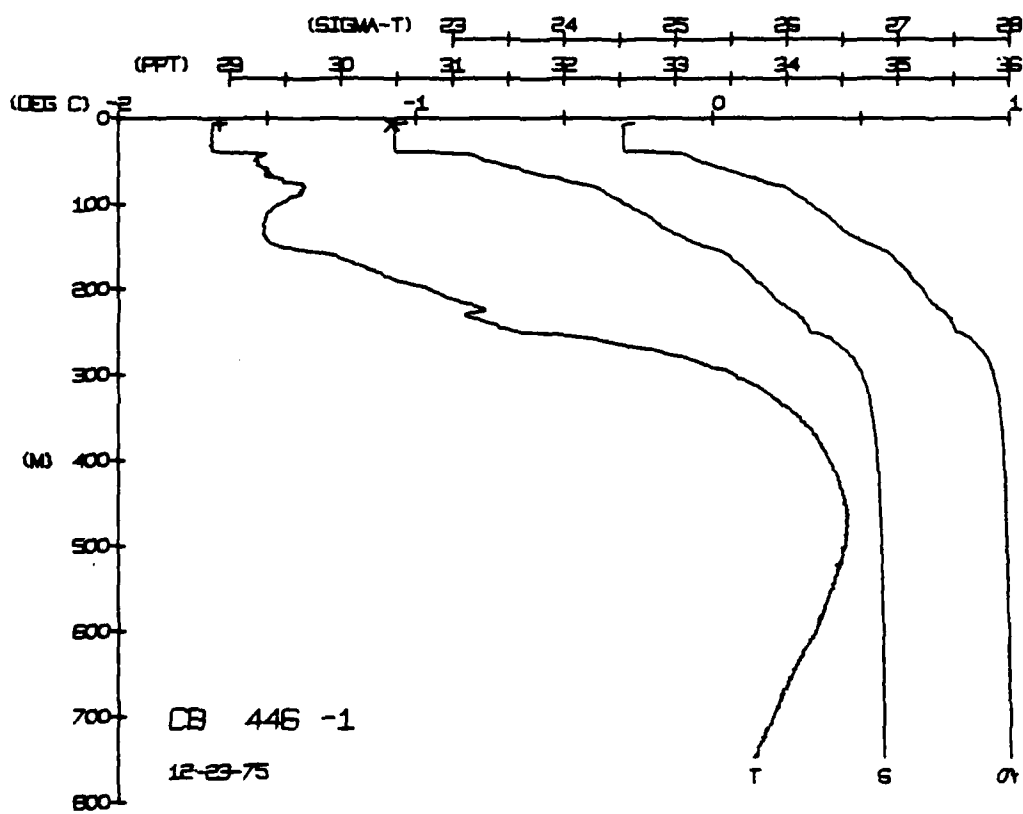
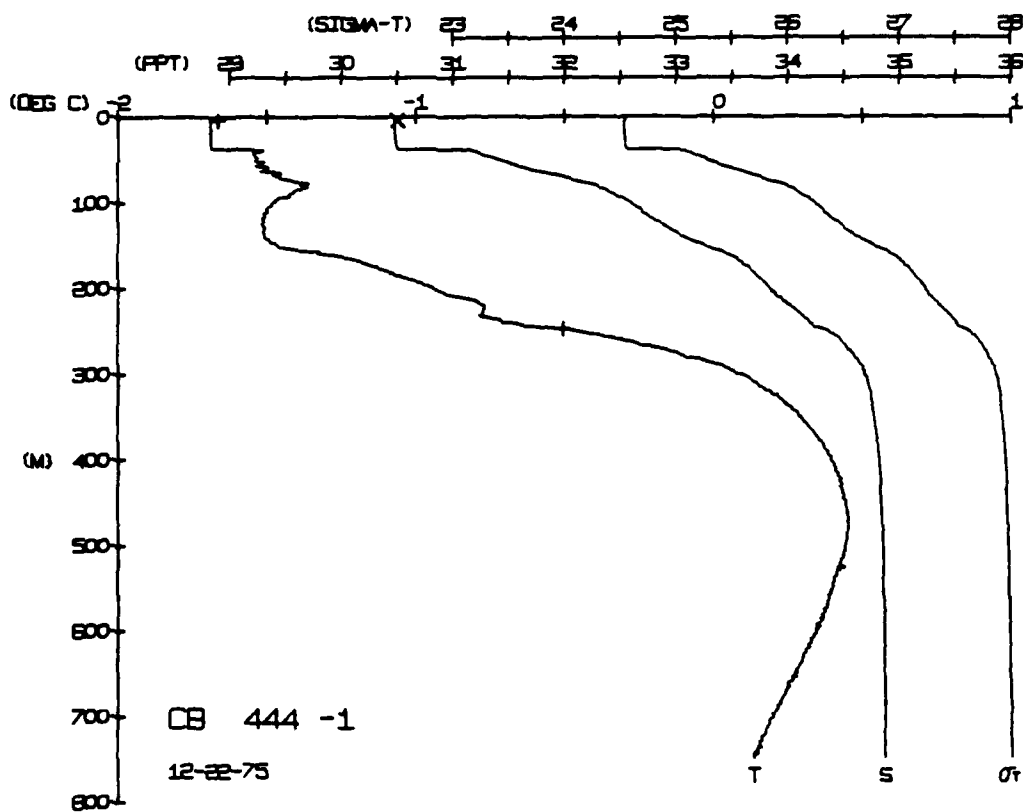
CARIBUO STATION 442(1) STD 21/DEC/1975 1851 GMT CODE = 2  
LAT = 73.026N LNG = 143.123W LTER = 0 USER = 0  
AIR TEMP = -34.7 WIND = 1023.0 WIND = 177.5 SPEED = 23.4

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVOL	DYHNT	SOUND
0	55	55	30	44	33	00	14335
10	55	55	30	44	33	00	14335
20	55	55	30	44	33	00	14335
30	55	55	30	44	33	00	14335
40	55	55	30	44	33	00	14335
50	55	55	30	44	33	00	14335
60	55	55	30	44	33	00	14335
70	55	55	30	44	33	00	14335
80	55	55	30	44	33	00	14335
90	55	55	30	44	33	00	14335
100	55	55	30	44	33	00	14335
110	55	55	30	44	33	00	14335
120	55	55	30	44	33	00	14335
130	55	55	30	44	33	00	14335
140	55	55	30	44	33	00	14335
150	55	55	30	44	33	00	14335
160	55	55	30	44	33	00	14335
170	55	55	30	44	33	00	14335
180	55	55	30	44	33	00	14335
190	55	55	30	44	33	00	14335
200	55	55	30	44	33	00	14335
210	55	55	30	44	33	00	14335
220	55	55	30	44	33	00	14335
230	55	55	30	44	33	00	14335
240	55	55	30	44	33	00	14335
250	55	55	30	44	33	00	14335
260	55	55	30	44	33	00	14335
270	55	55	30	44	33	00	14335
280	55	55	30	44	33	00	14335
290	55	55	30	44	33	00	14335
300	55	55	30	44	33	00	14335
310	55	55	30	44	33	00	14335
320	55	55	30	44	33	00	14335
330	55	55	30	44	33	00	14335
340	55	55	30	44	33	00	14335
350	55	55	30	44	33	00	14335
360	55	55	30	44	33	00	14335
370	55	55	30	44	33	00	14335
380	55	55	30	44	33	00	14335
390	55	55	30	44	33	00	14335
400	55	55	30	44	33	00	14335
410	55	55	30	44	33	00	14335
420	55	55	30	44	33	00	14335
430	55	55	30	44	33	00	14335
440	55	55	30	44	33	00	14335
450	55	55	30	44	33	00	14335
460	55	55	30	44	33	00	14335
470	55	55	30	44	33	00	14335
480	55	55	30	44	33	00	14335
490	55	55	30	44	33	00	14335
500	55	55	30	44	33	00	14335

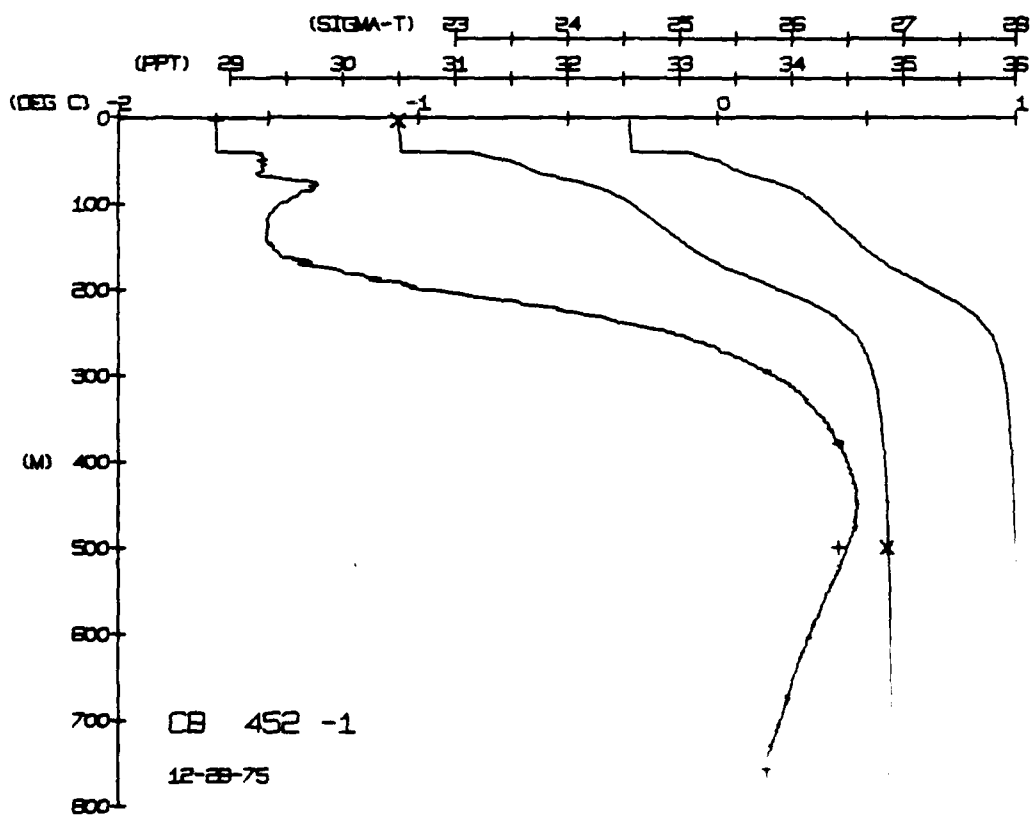
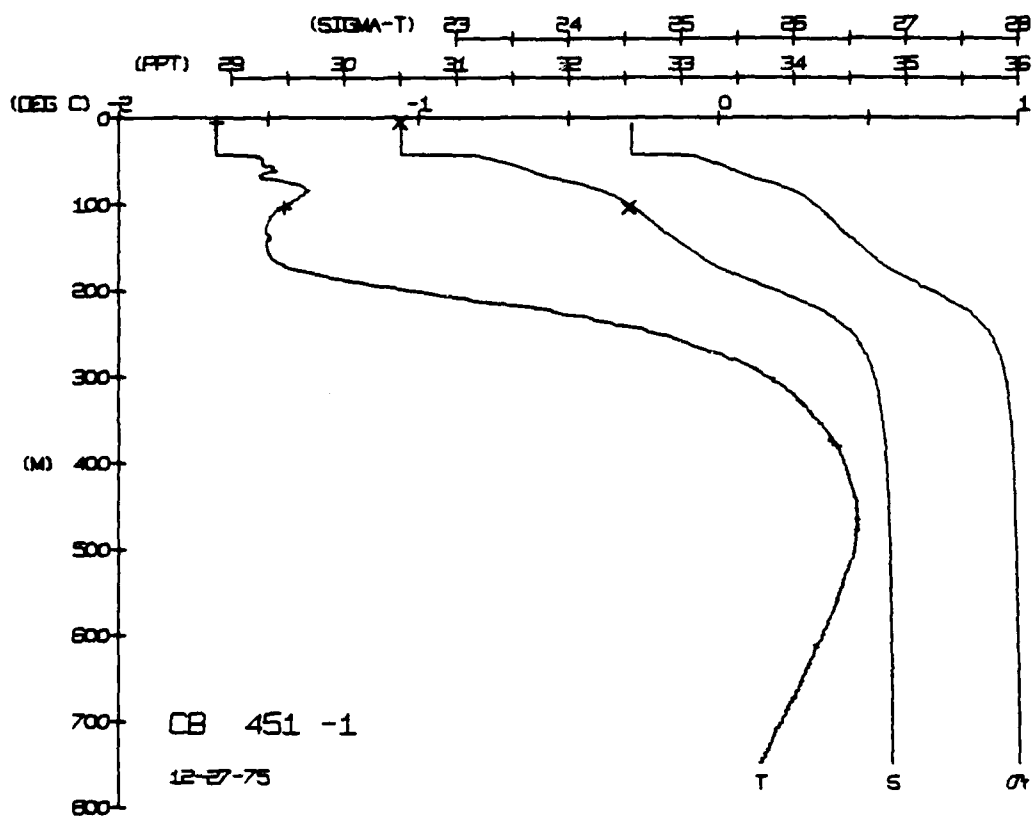
DEPTH 4.5  
TEMP 0.44  
SALIN 30.53  
BOT NUM = 1  
BOT NUM = 2













AD-A118 202

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES NY

F/G 8/10

ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)

FEB 80 E BAUER, K HUNKINS, T O MANLEY

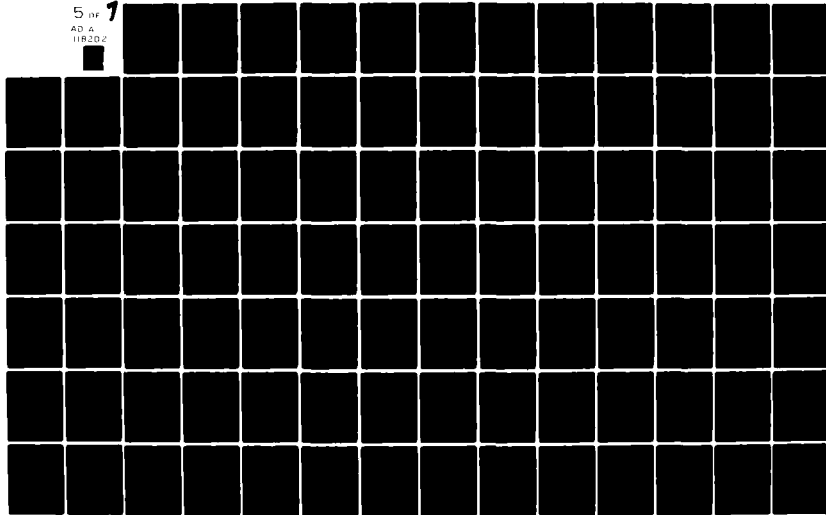
N00014-76-C-0004

UNCLASSIFIED

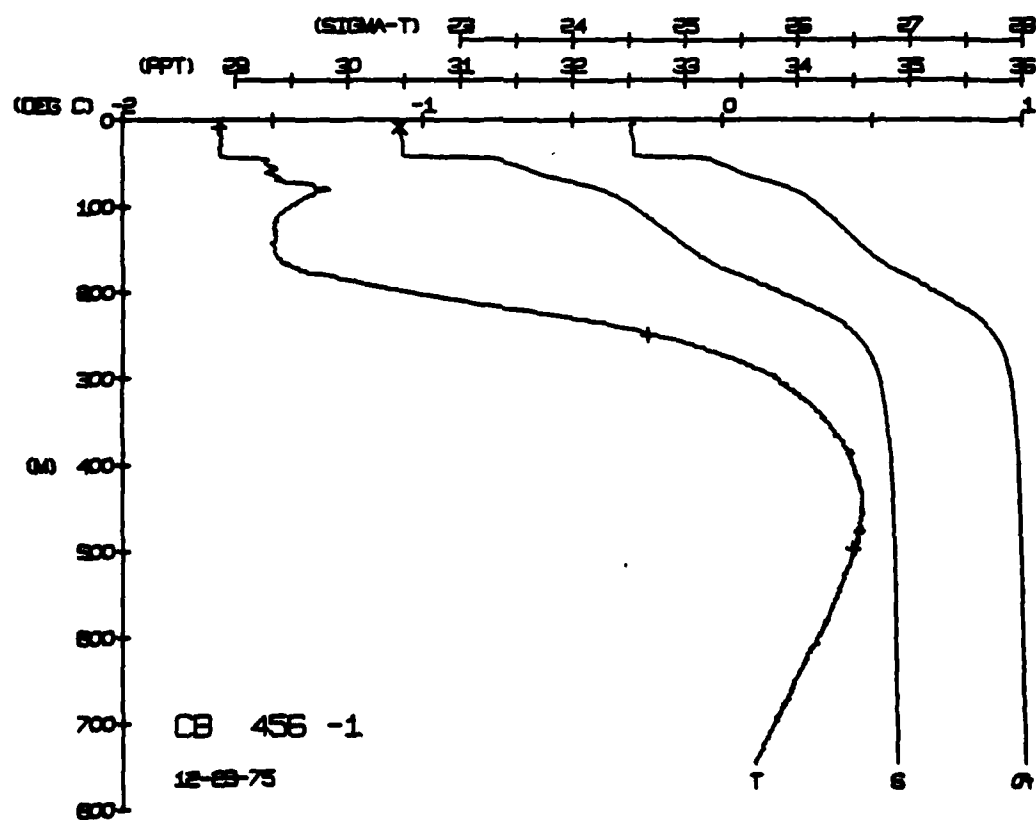
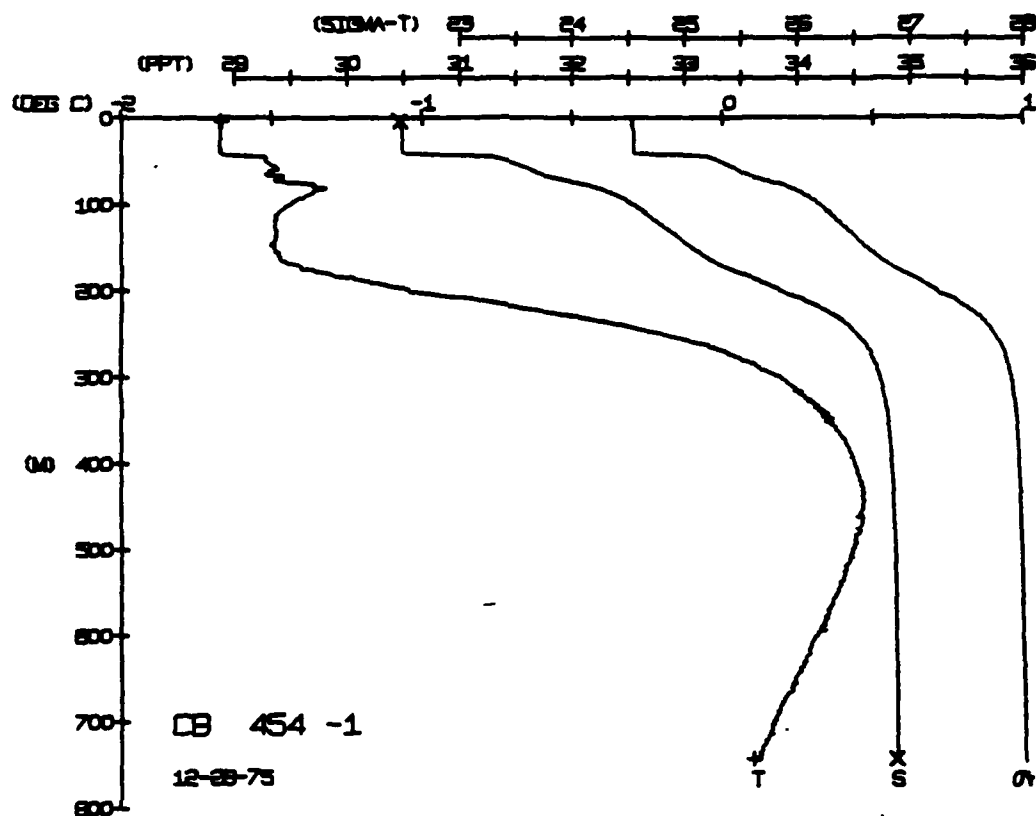
LD60-CU-8-80

NL

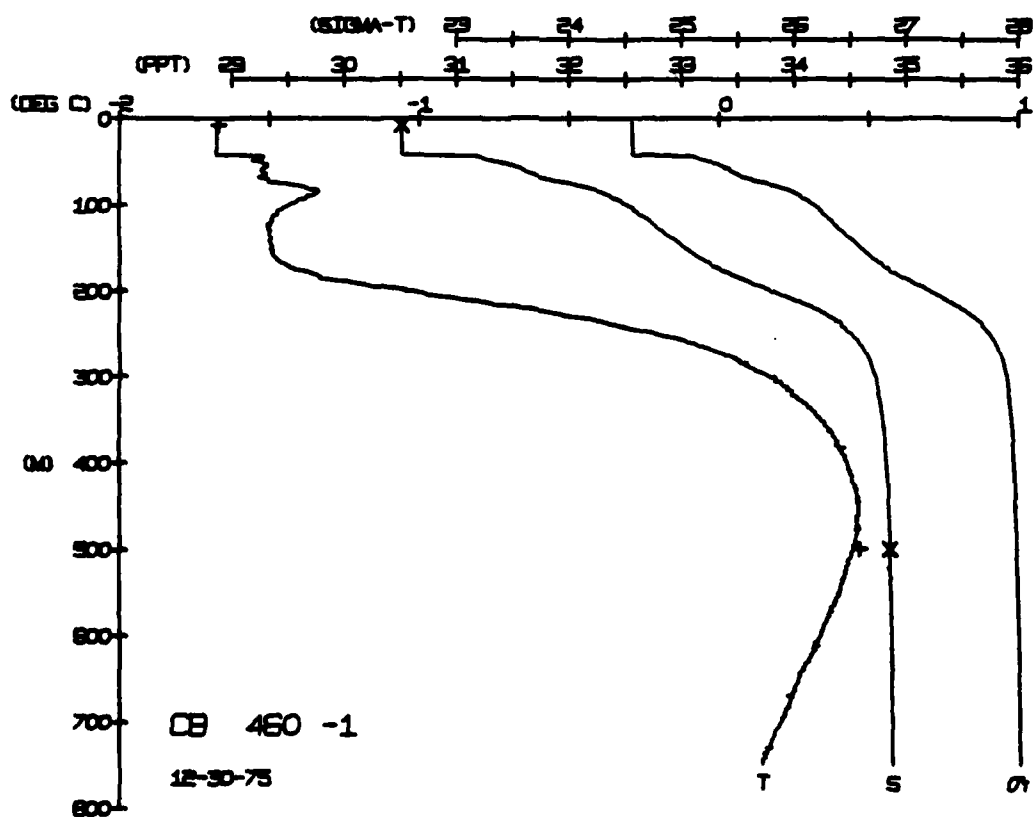
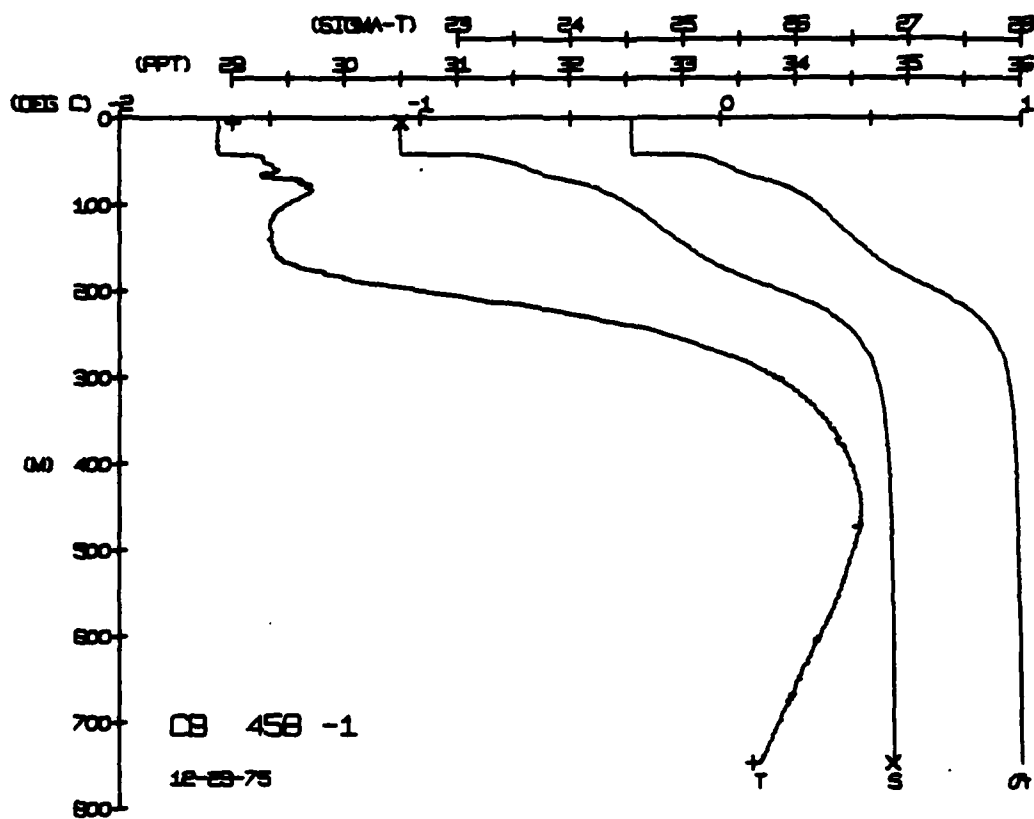
5 OF 1  
AD 4  
118202



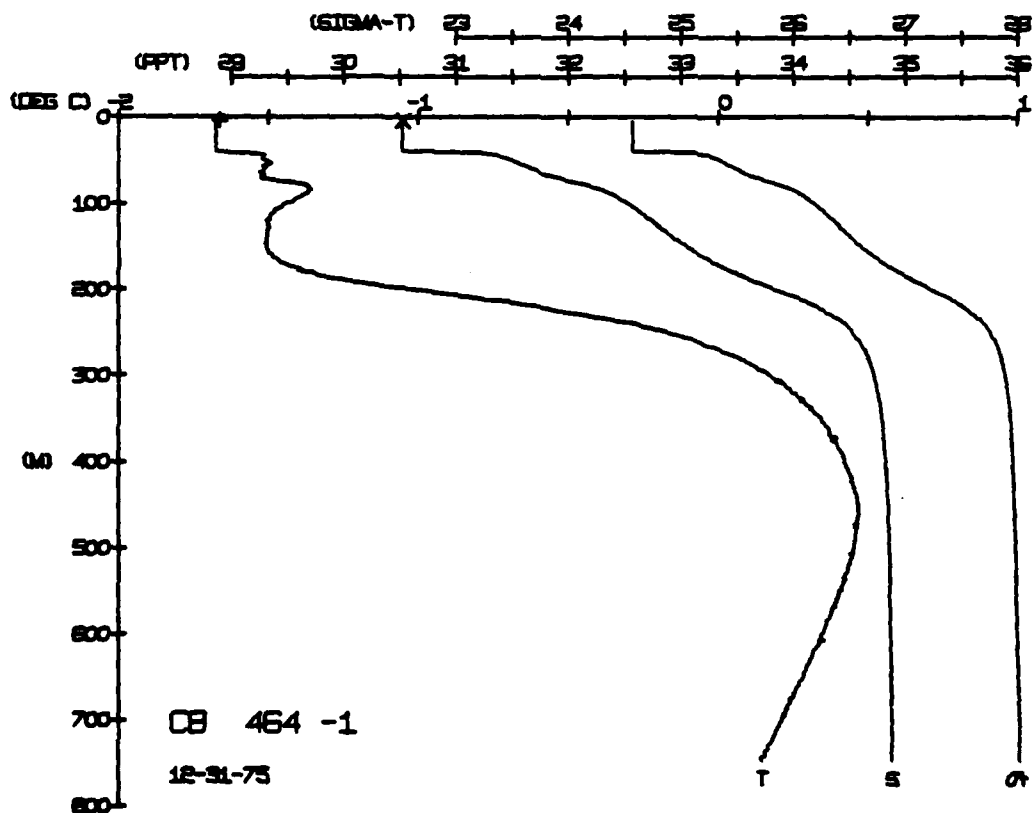
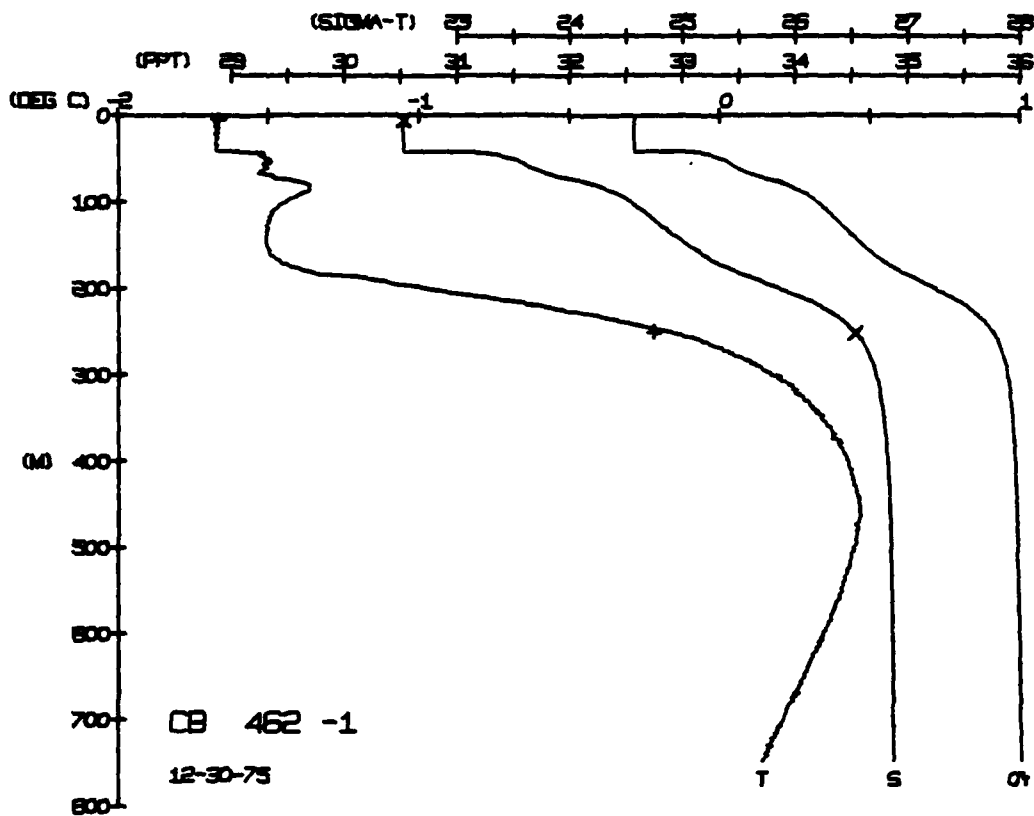






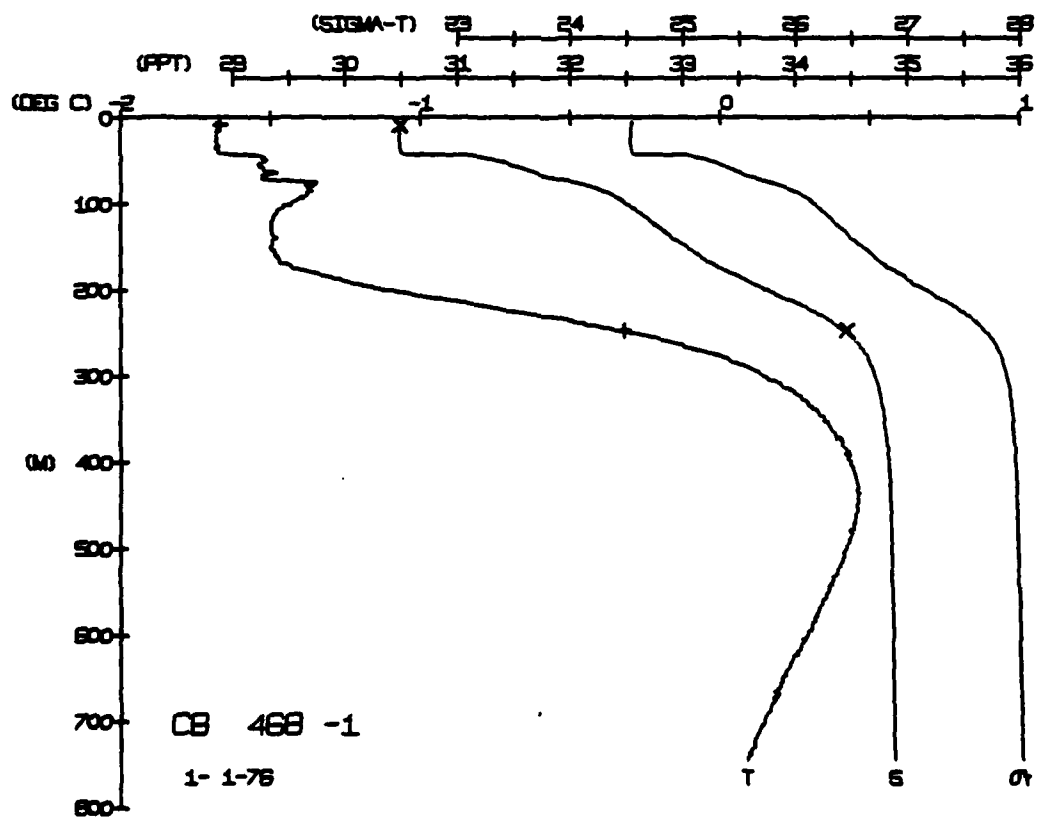
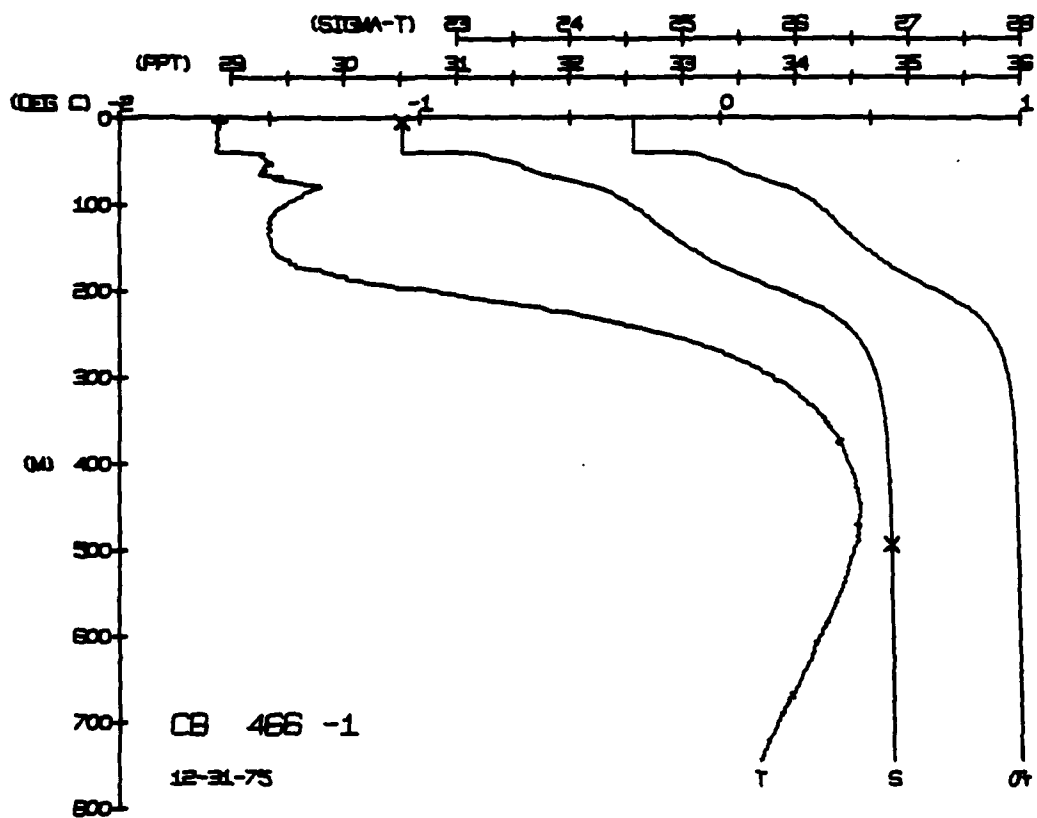












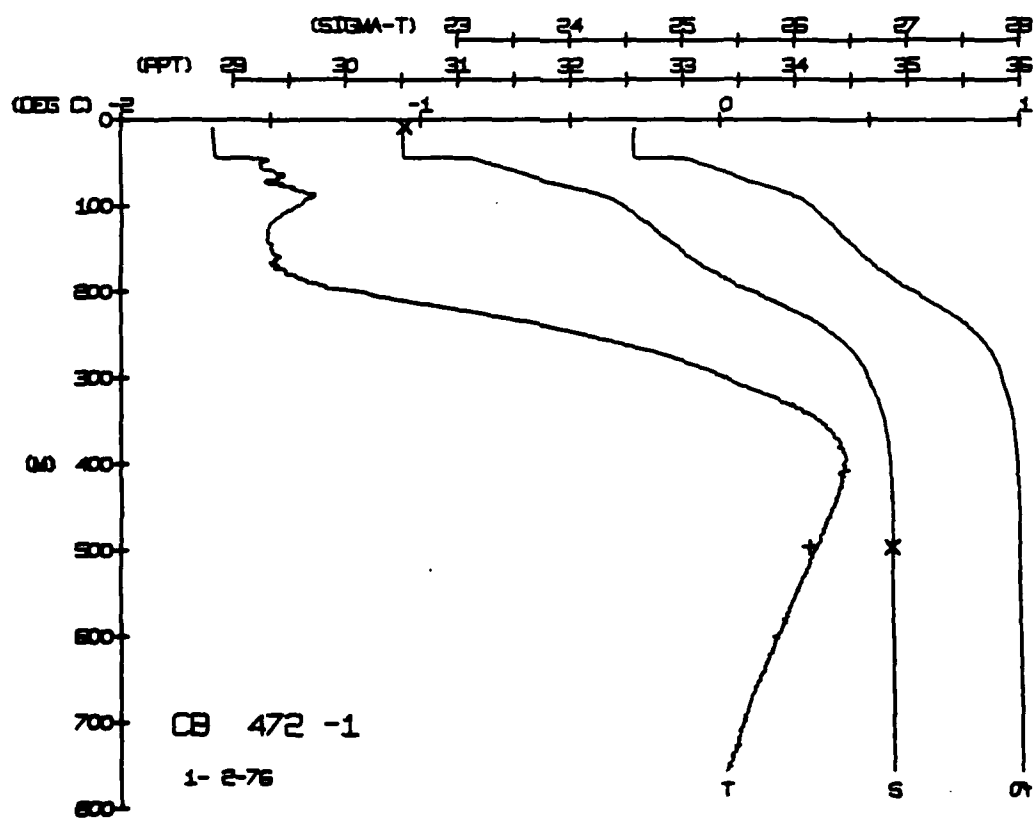
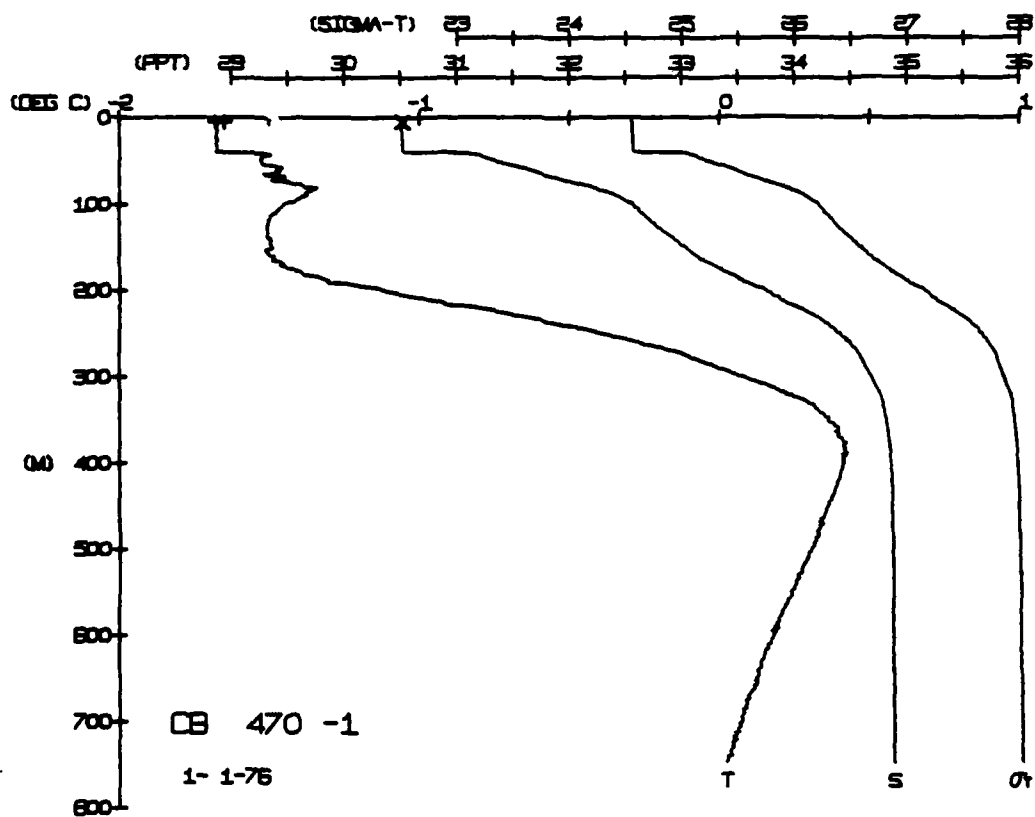
CARIBOU STATION 472(1) STD 2/JAN/1976 530 GMT CODE = 1  
LAT = 73.1067N LNG = 143.5805W LTER = 47 LGER = 96  
AIR TEMP = -22.3 HARUM = 1029.1 WIND = 97.6 SPEED = 27.6

[illegible]

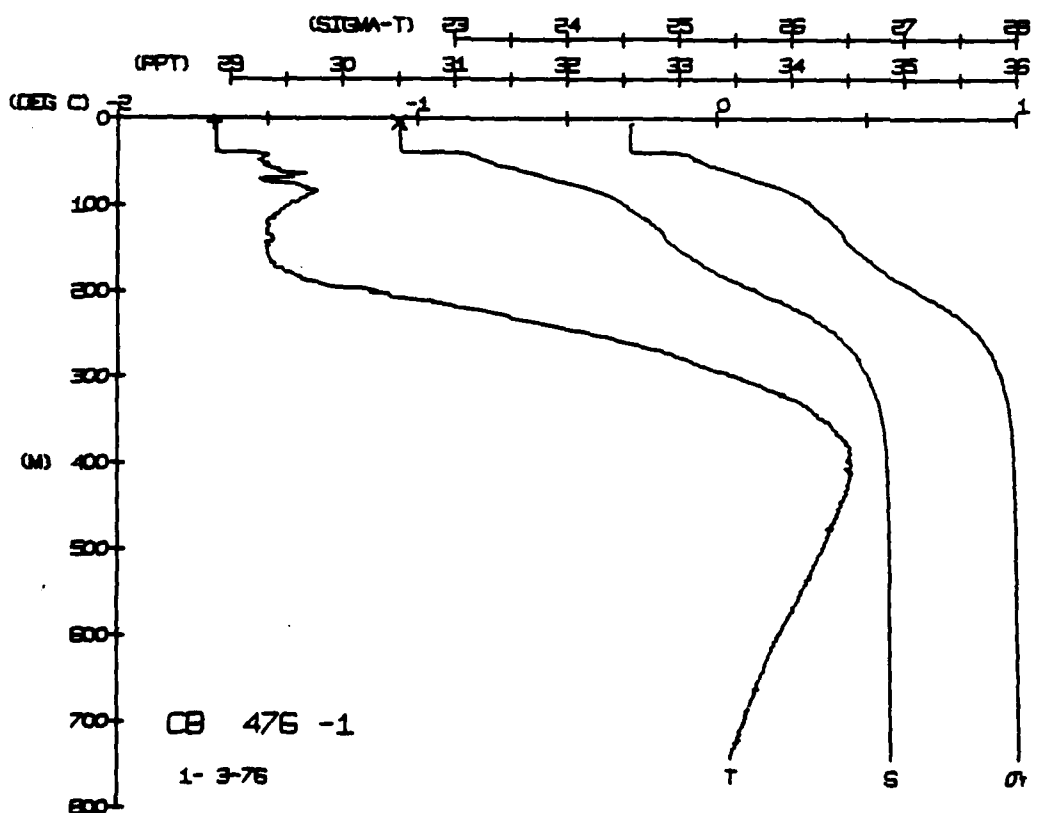
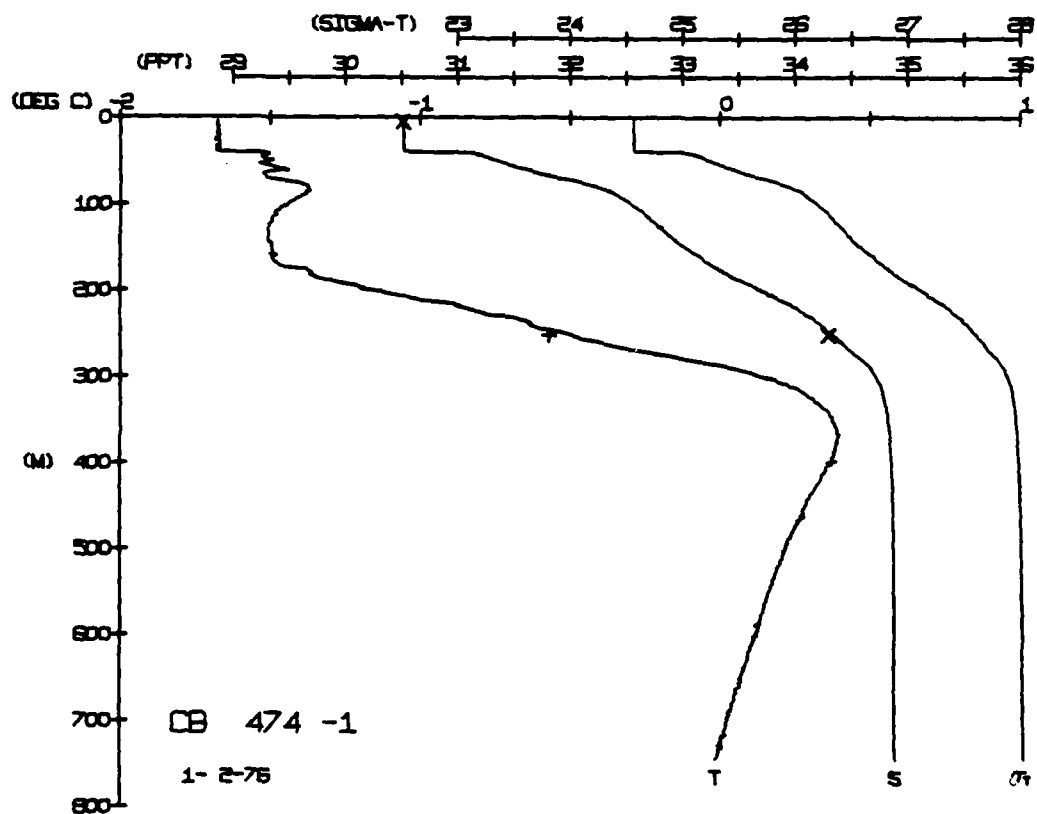
DEPTH	TEMP.	SALIN
5.3	-1.68	30.52
5.3	-1.65	

[illegible]

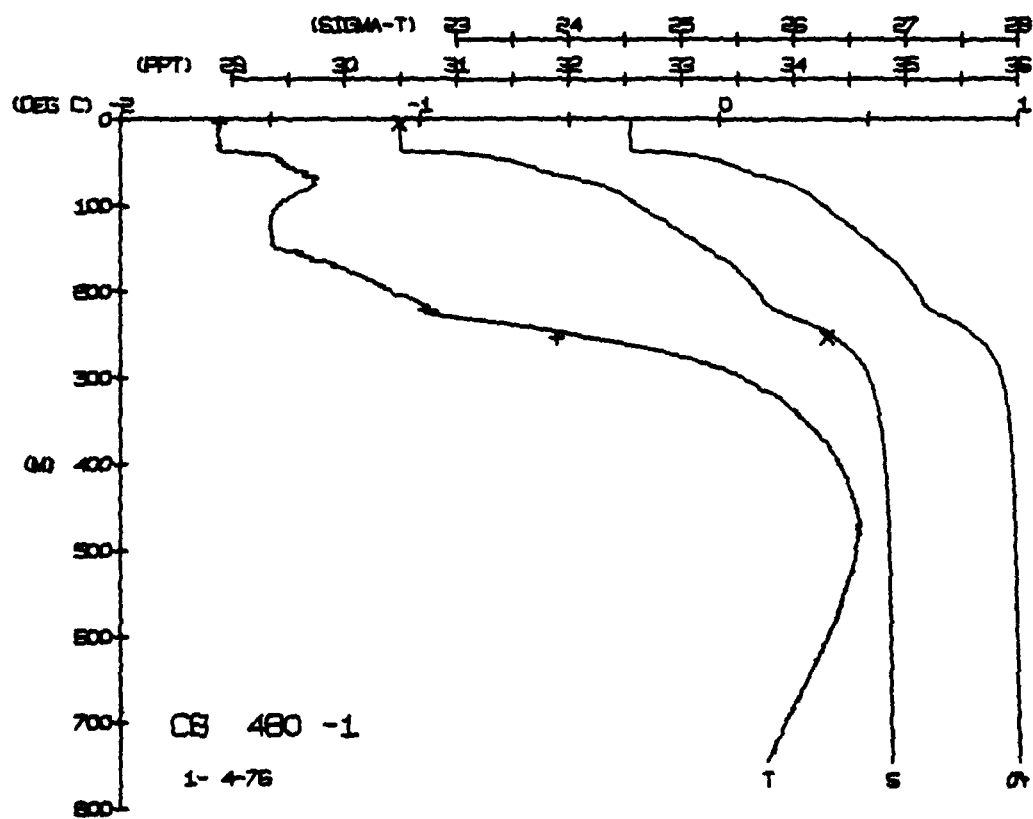
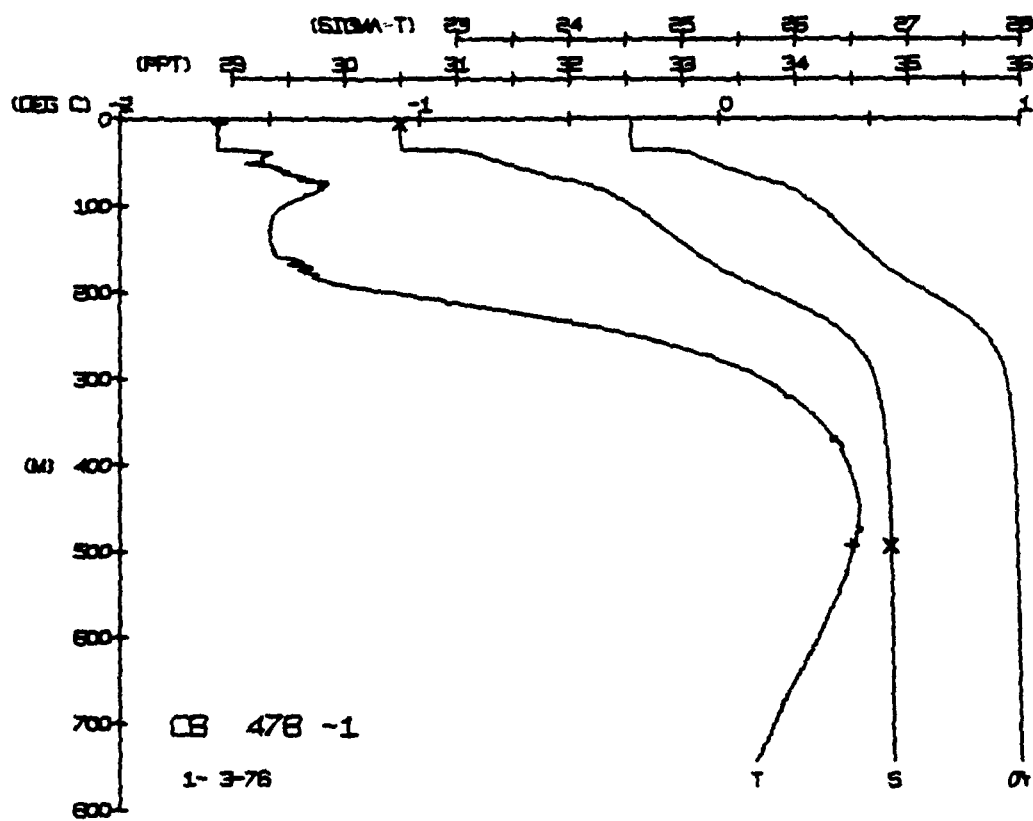
DEPTH	TEMP.	SALIN
7.6		30.53
495.9	0.30	34.87





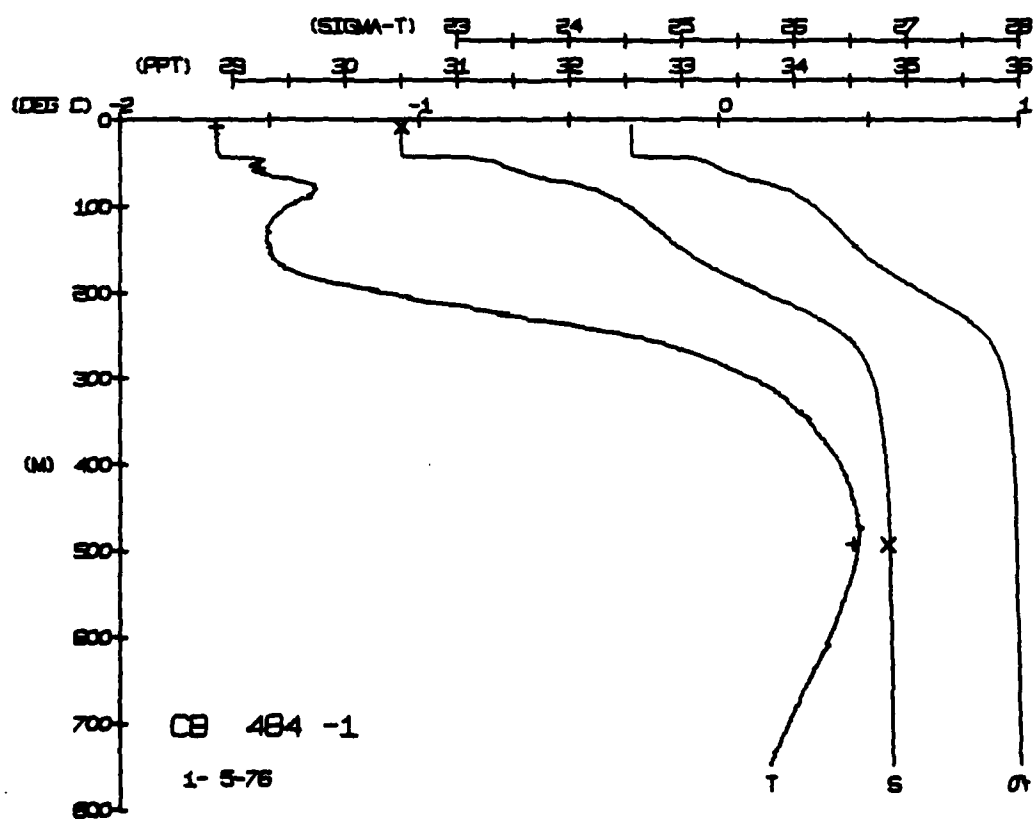
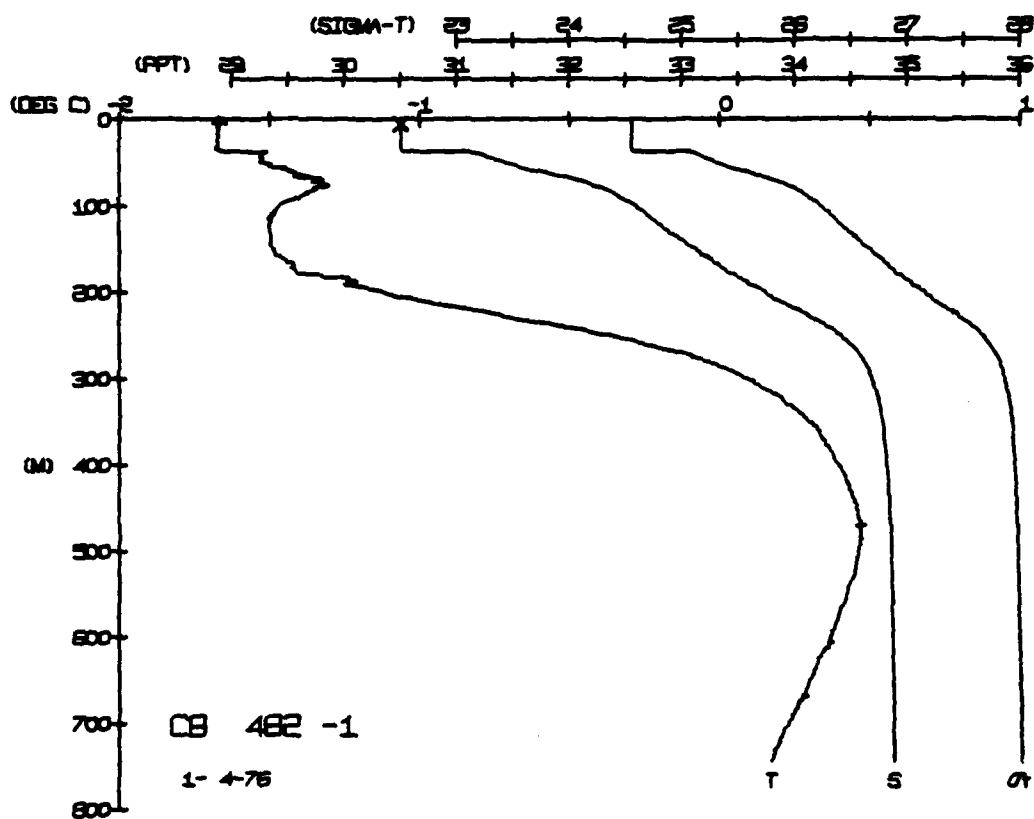






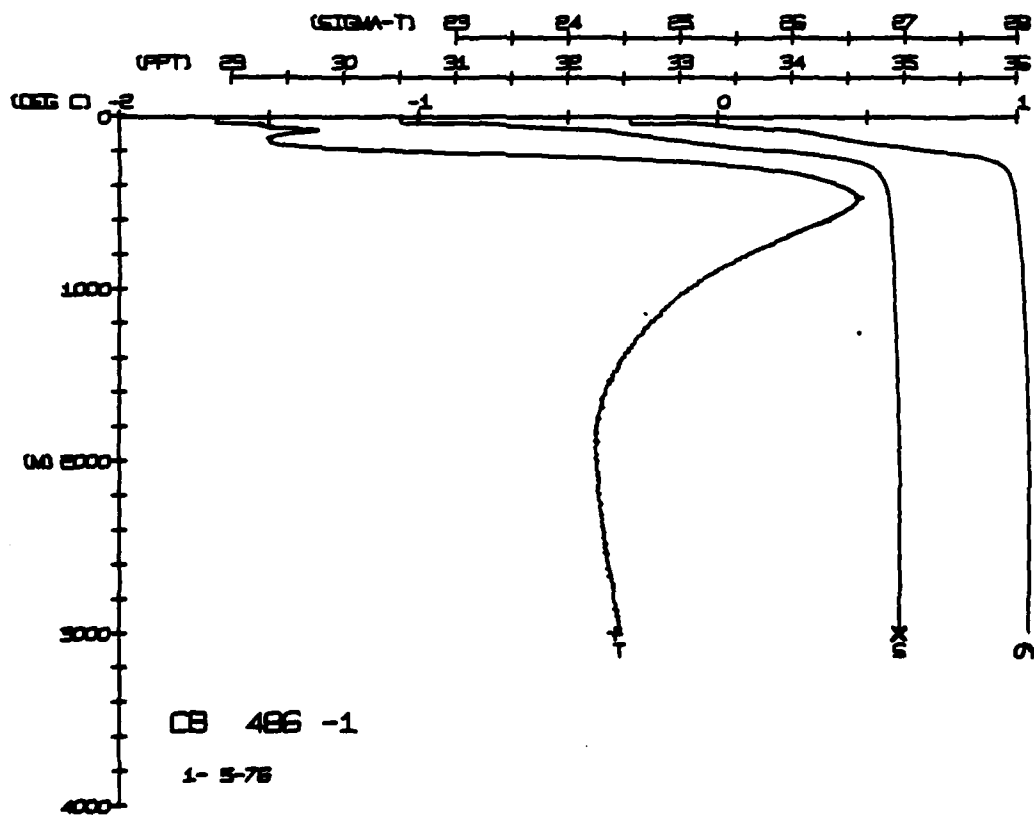
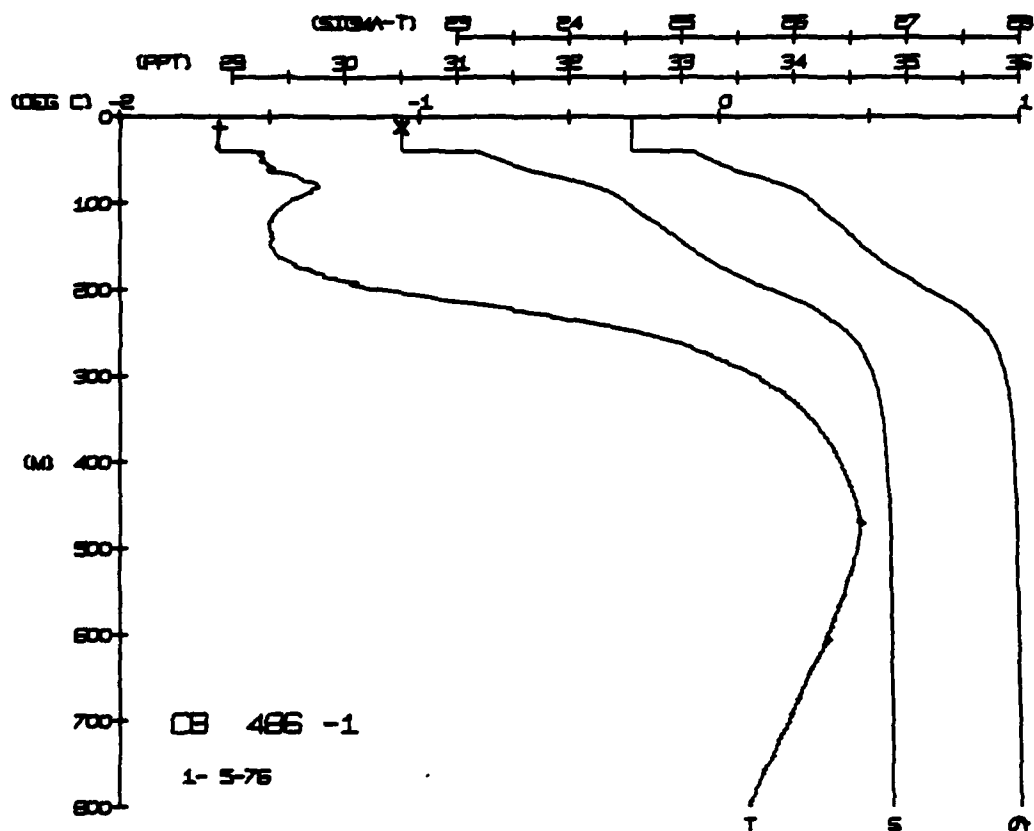




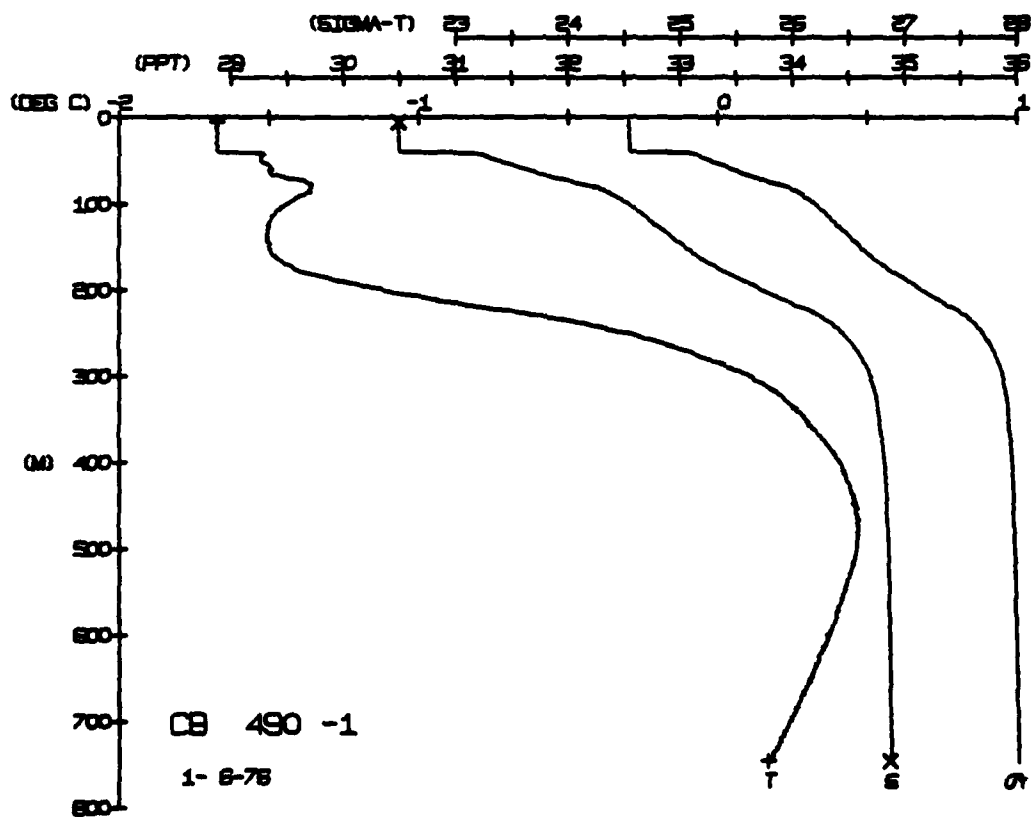
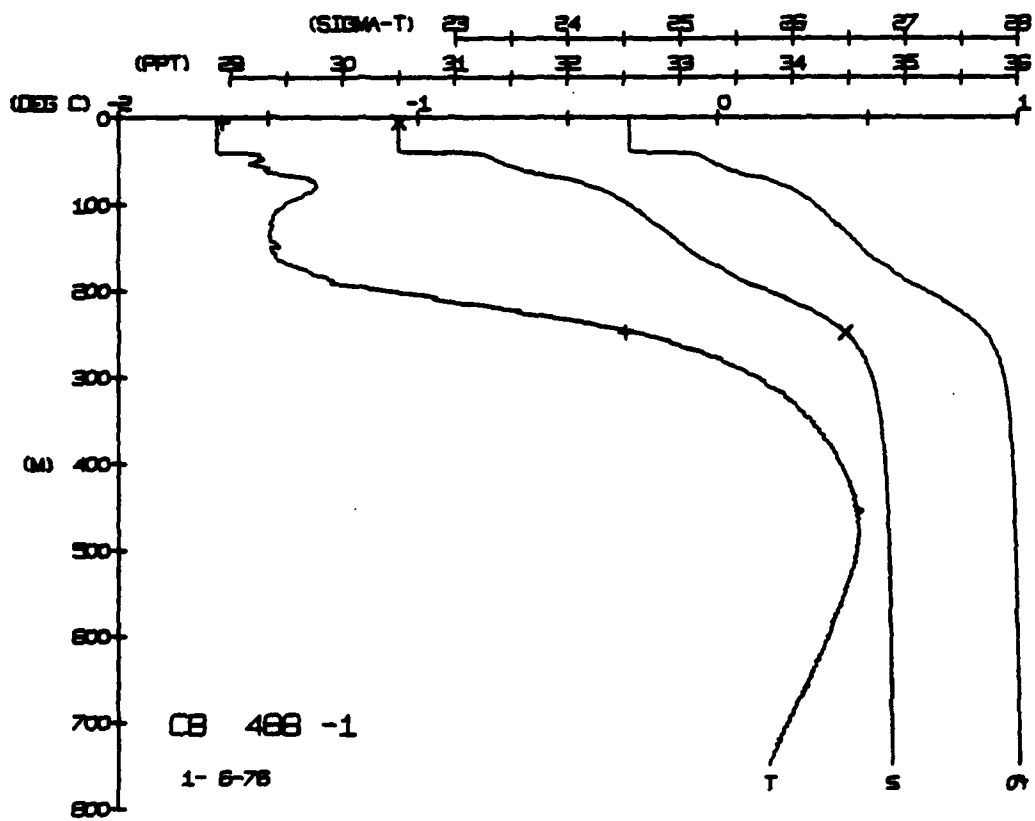


[illegible]

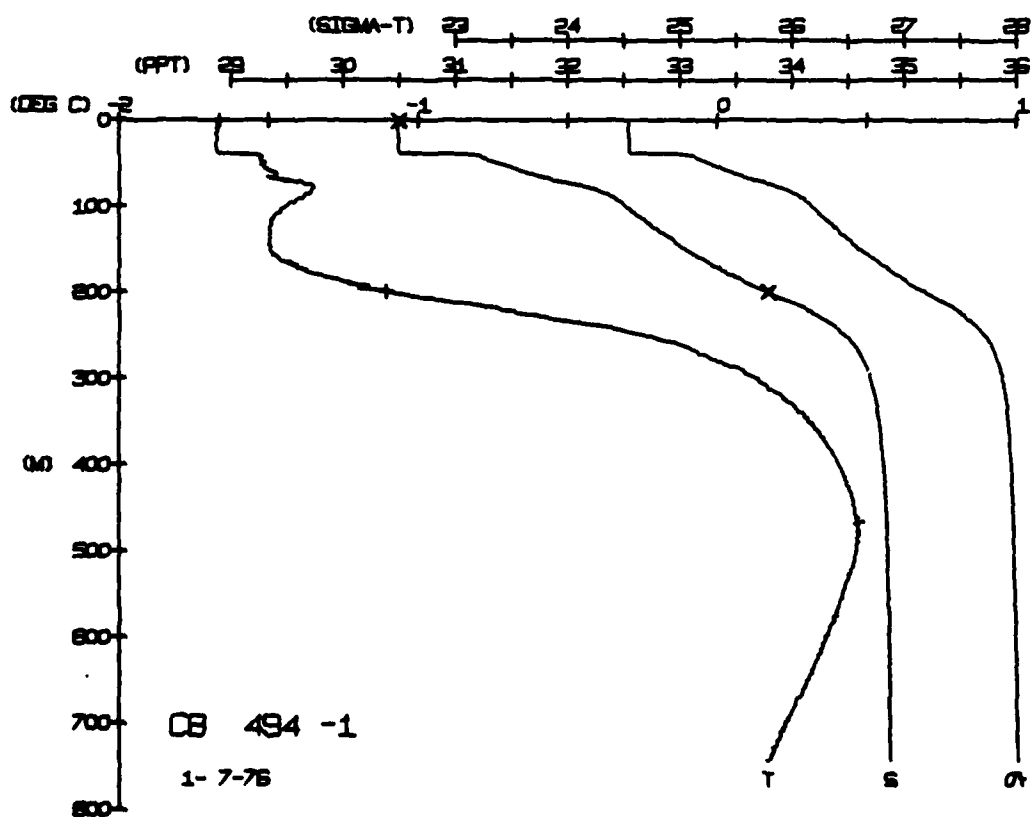
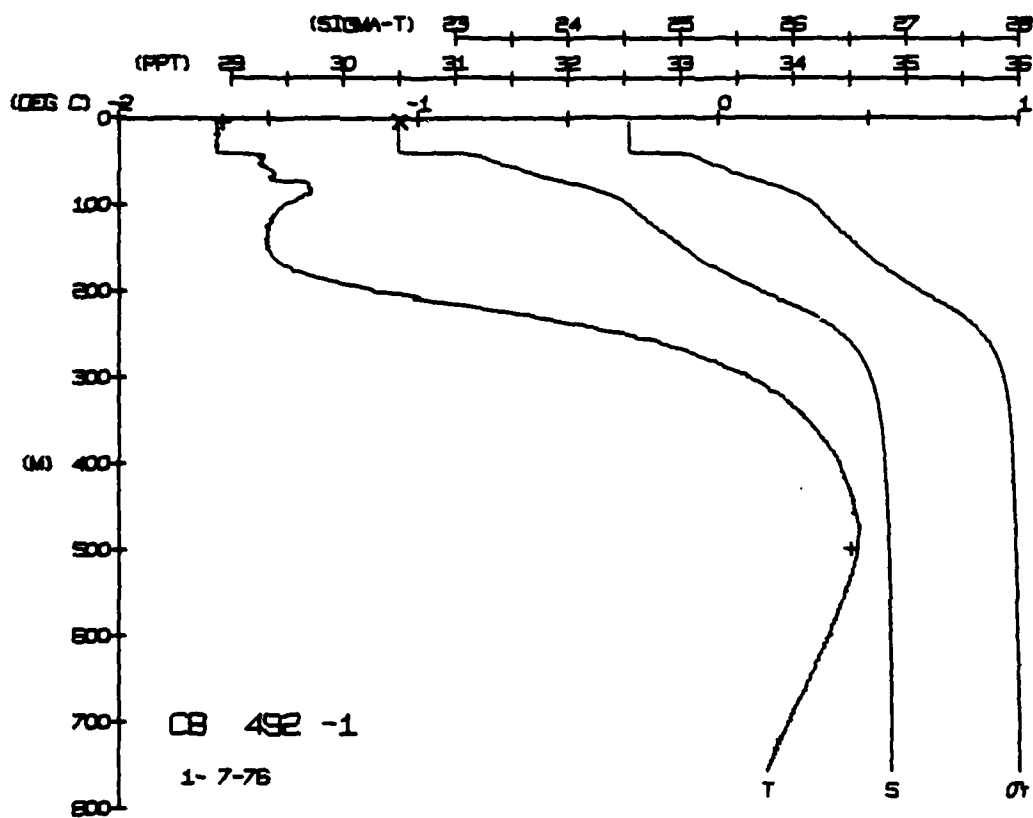
NUM	NUM	=	12
NUM	NUM	=	





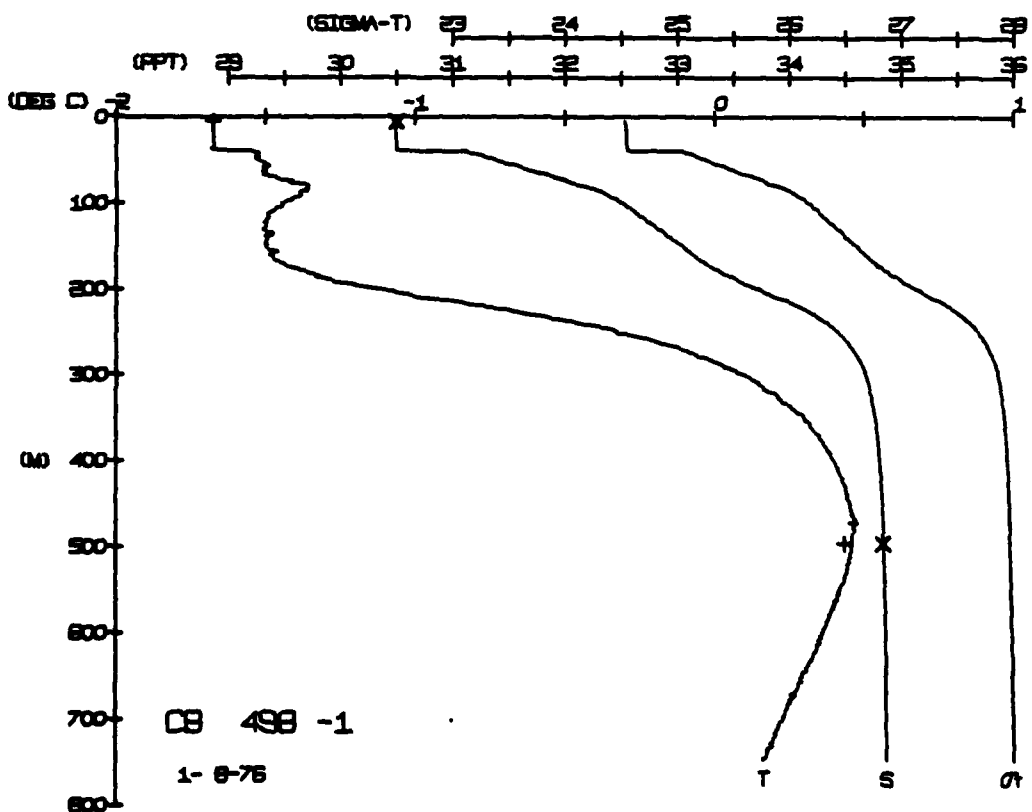
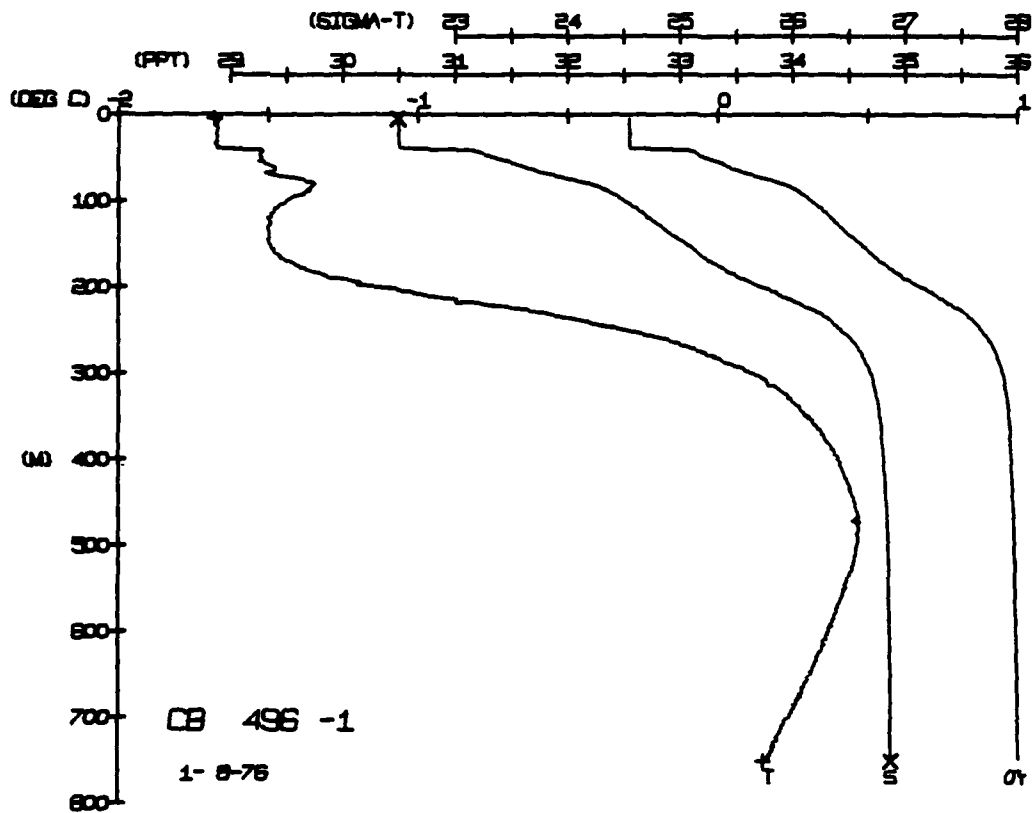




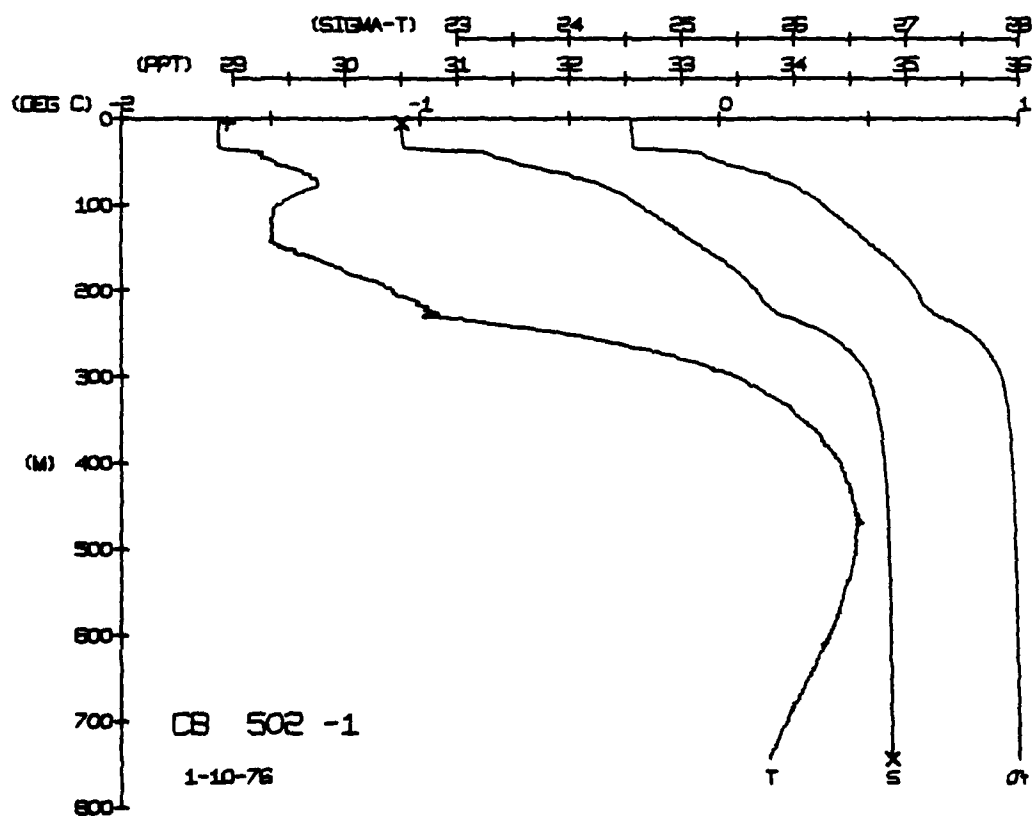
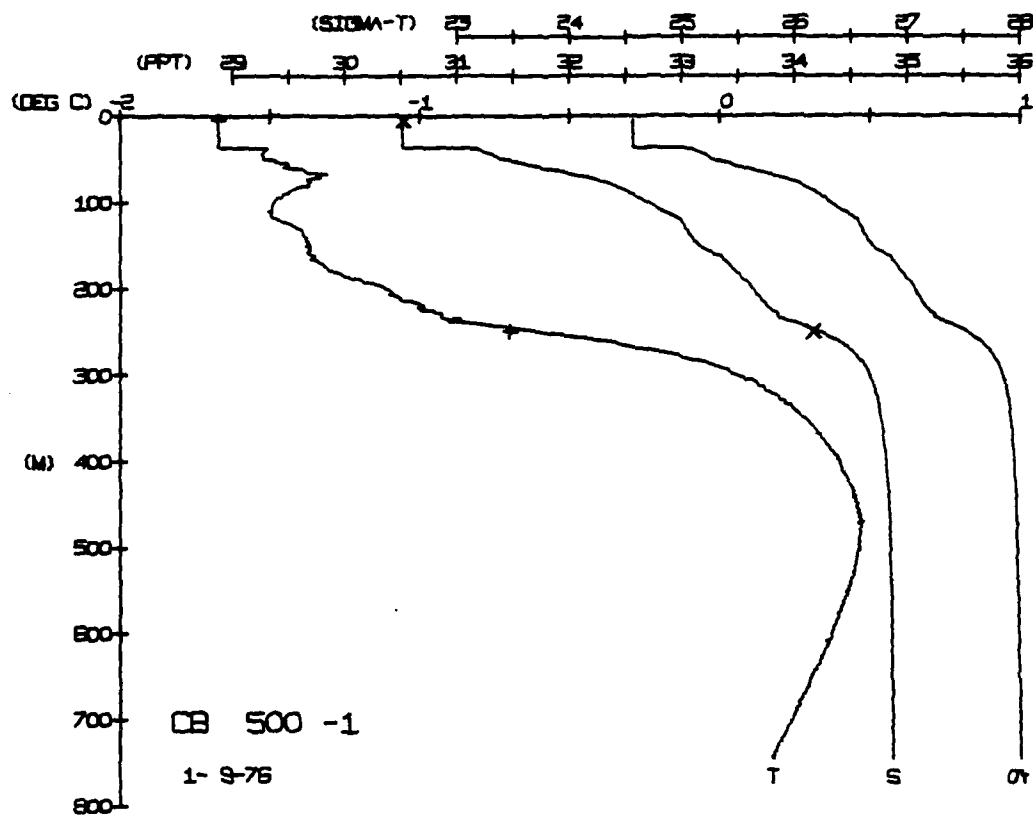




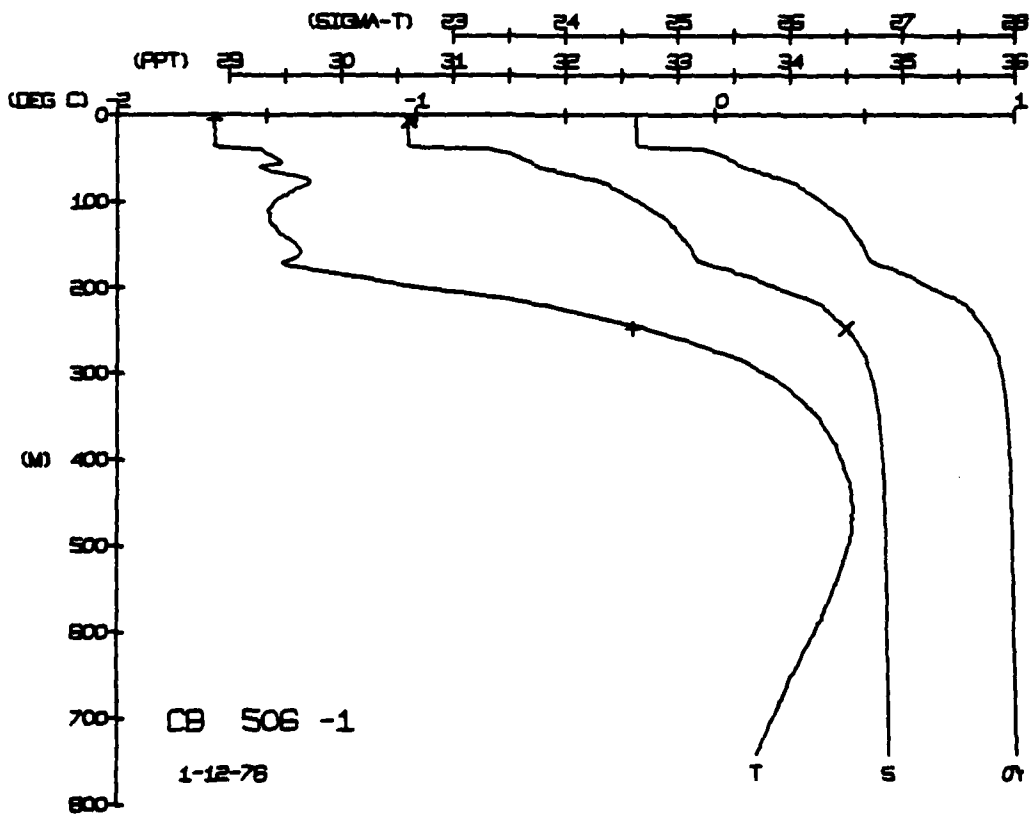
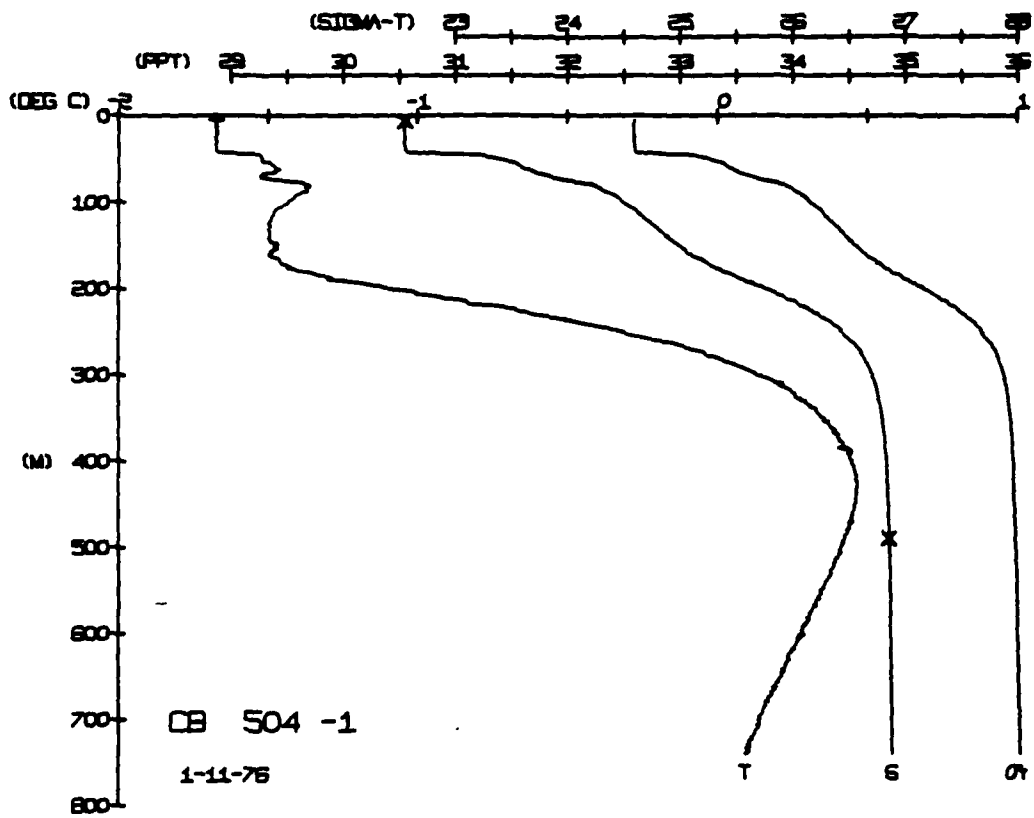




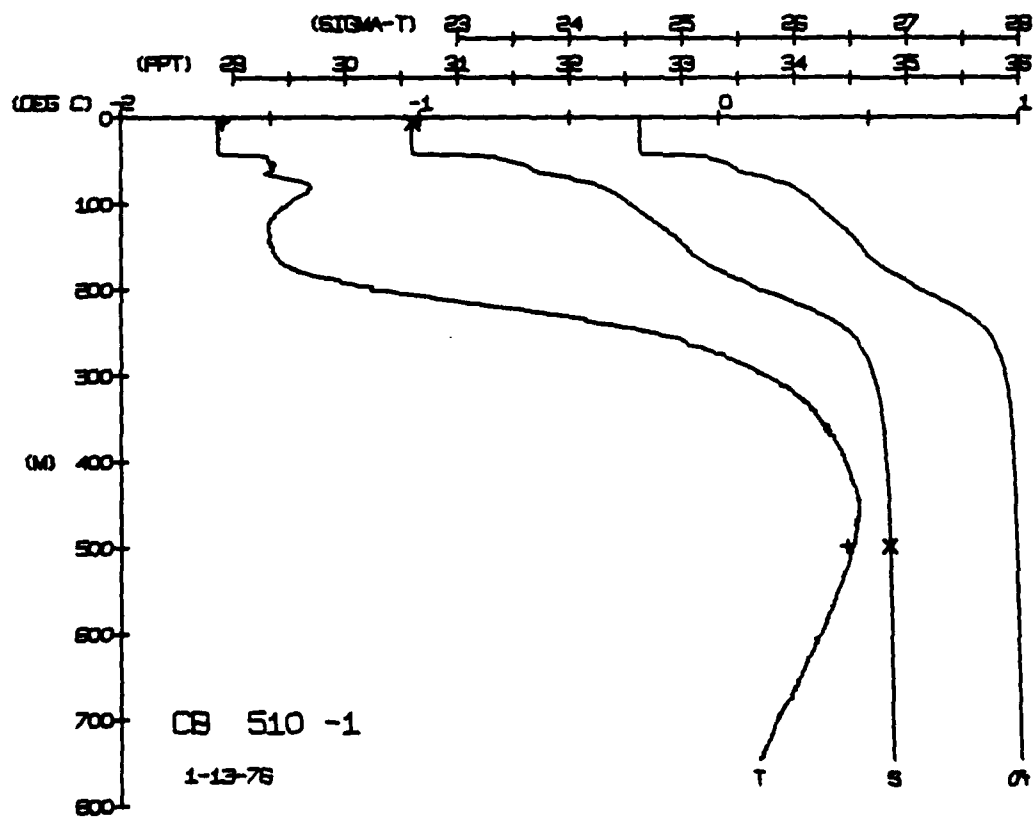
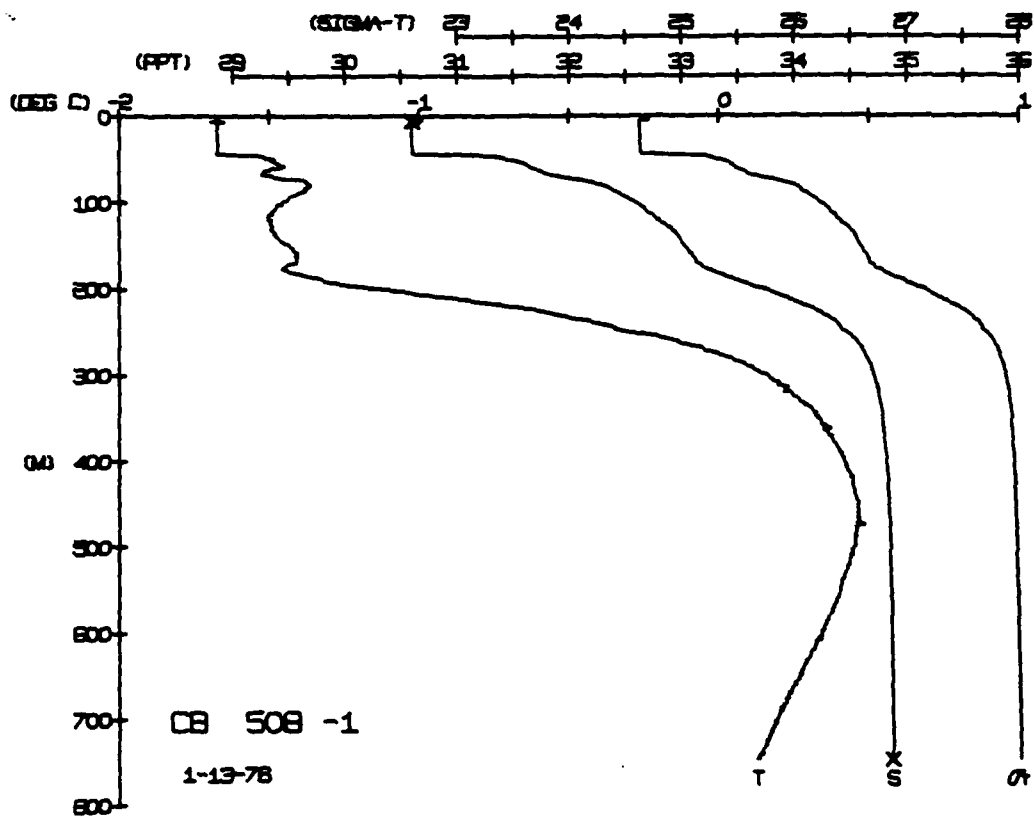






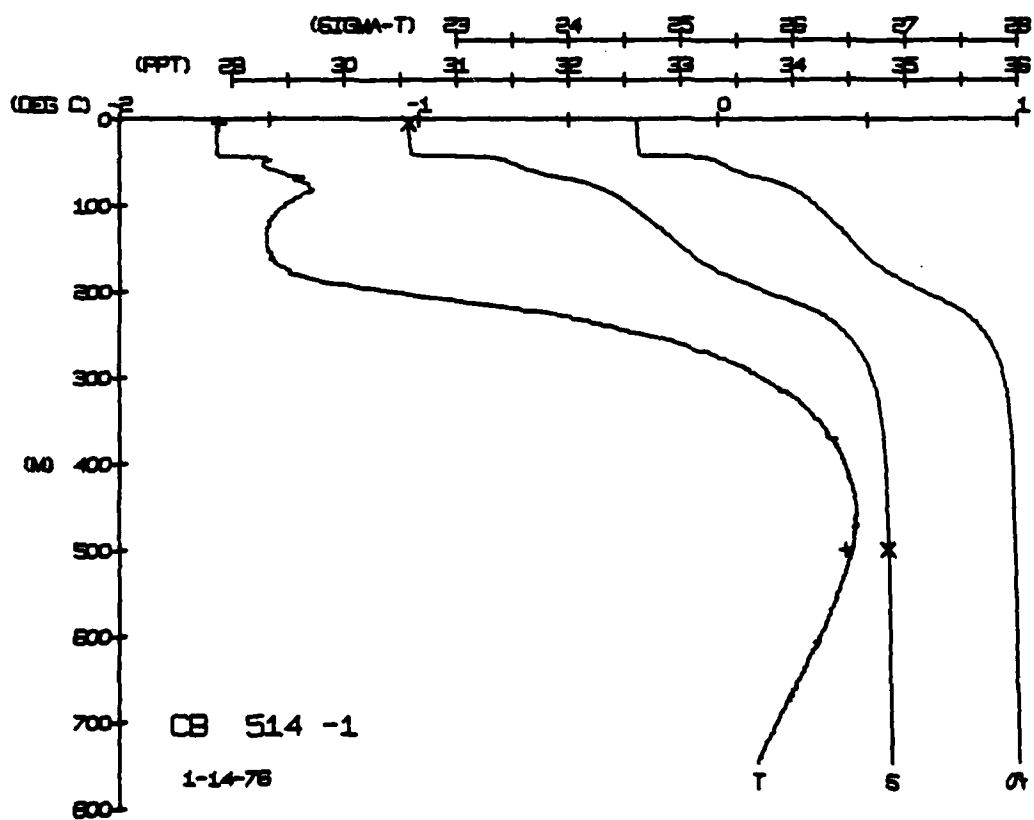
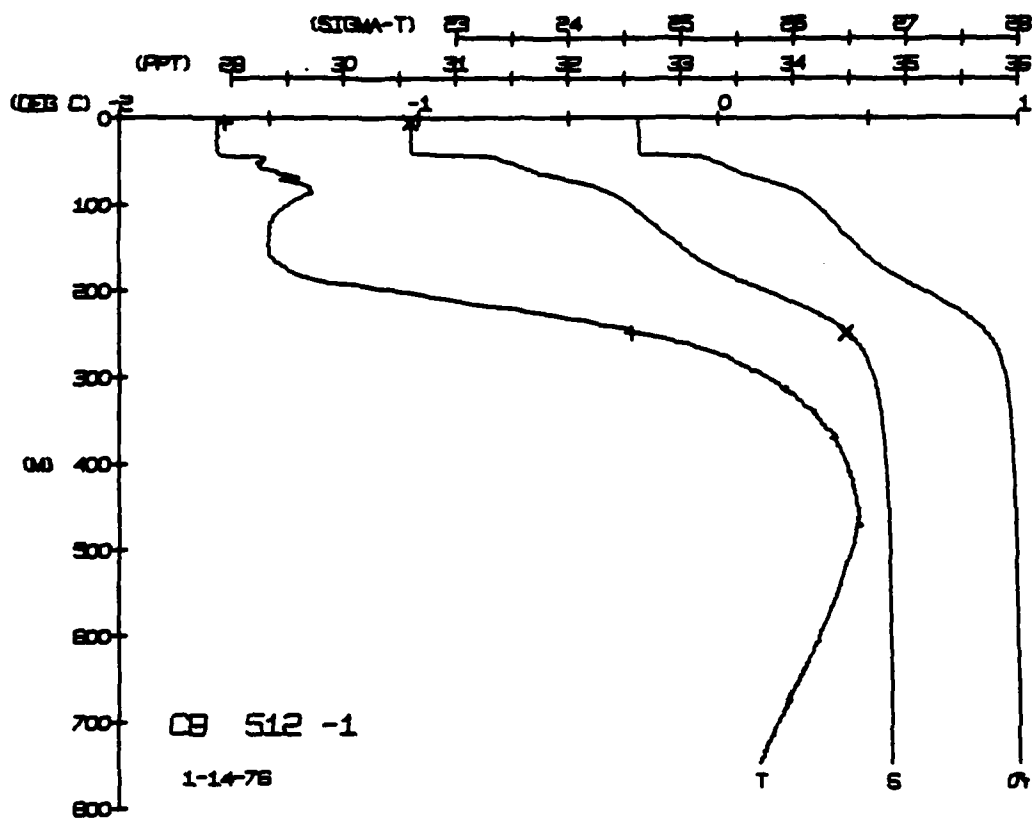




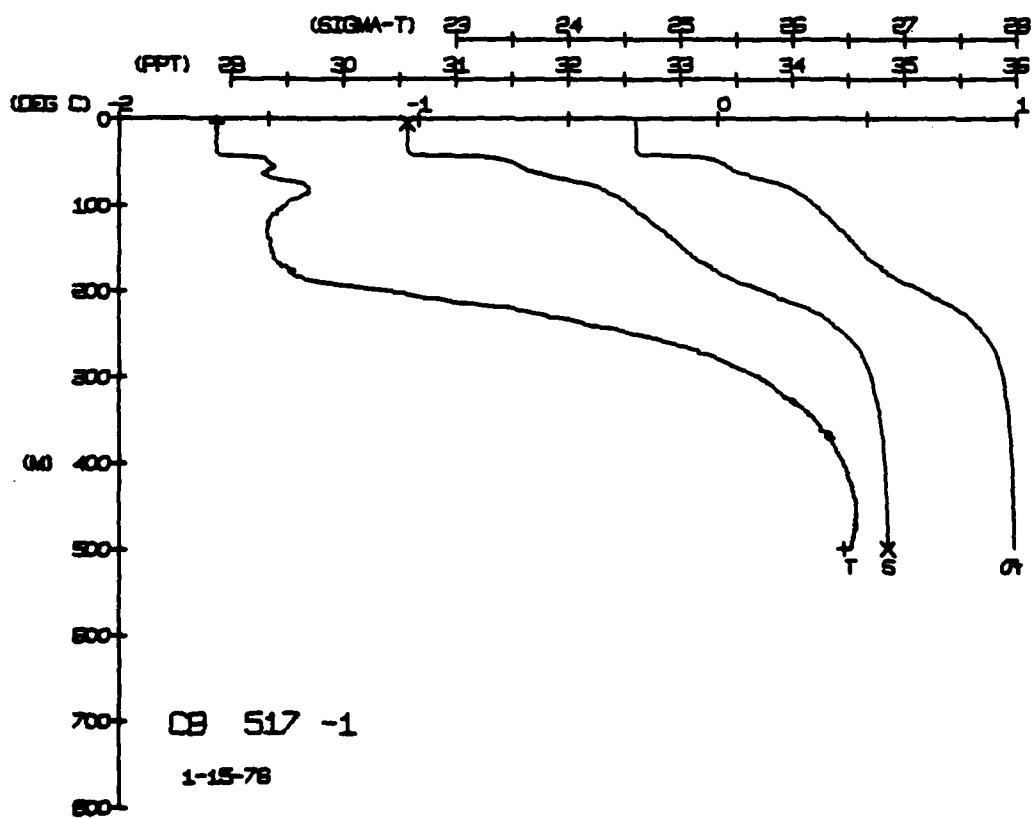
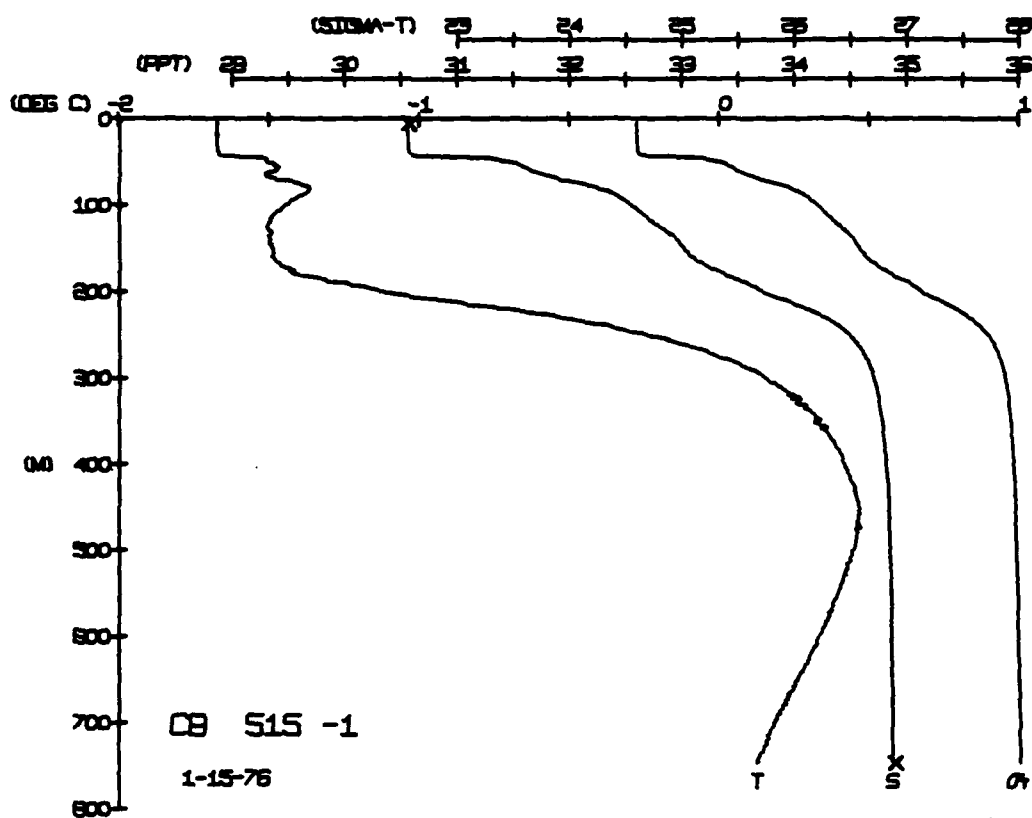






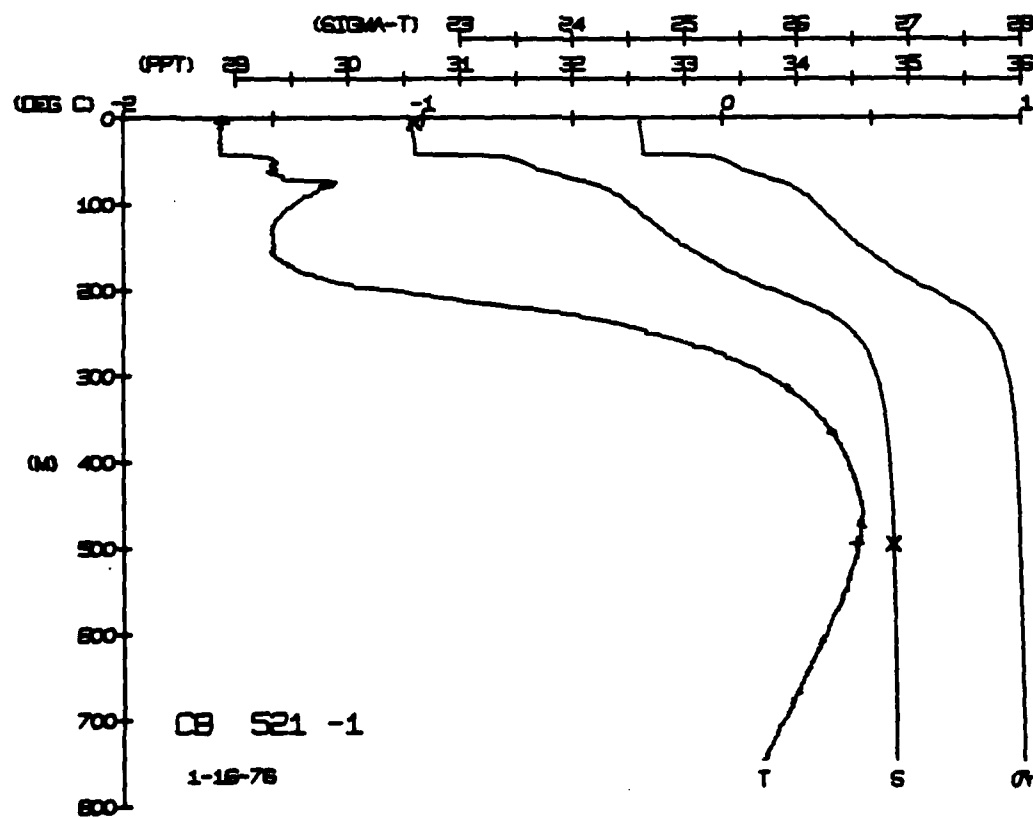
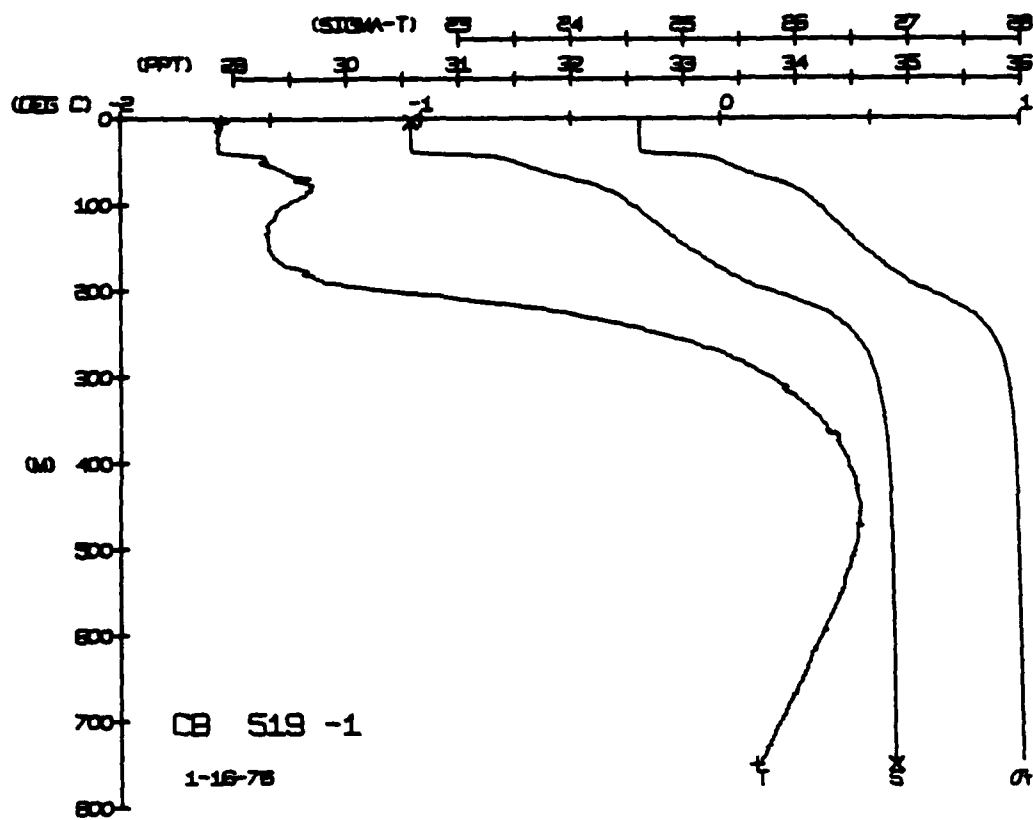




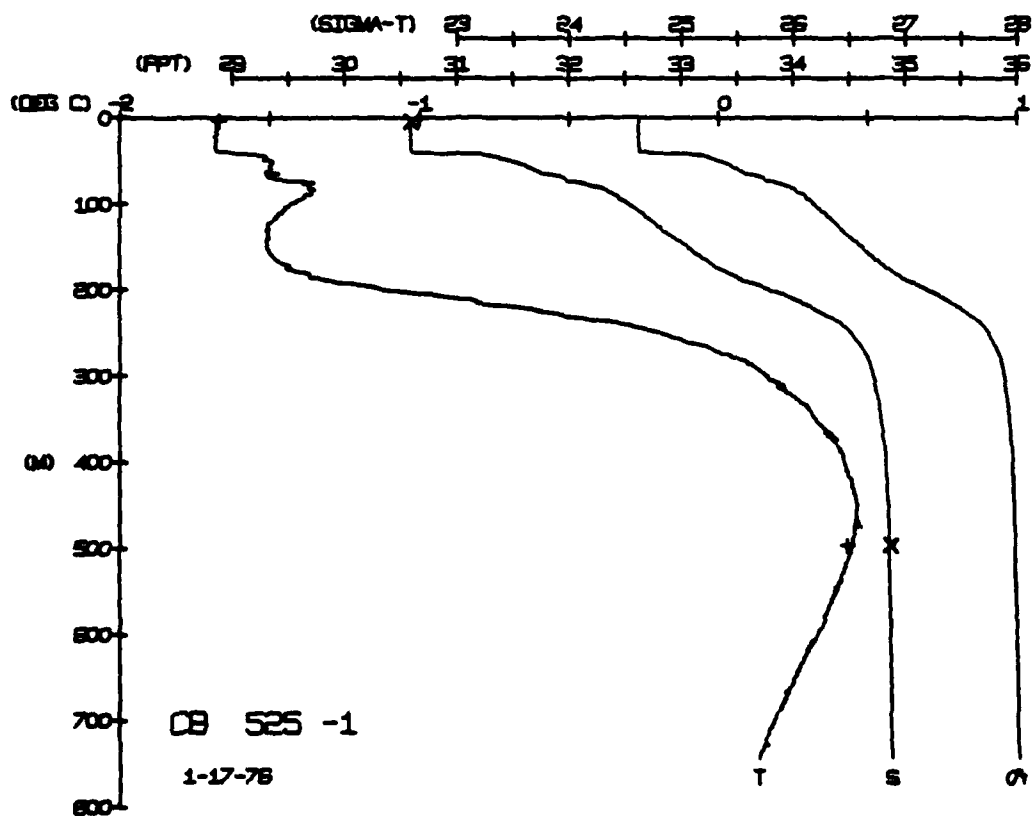
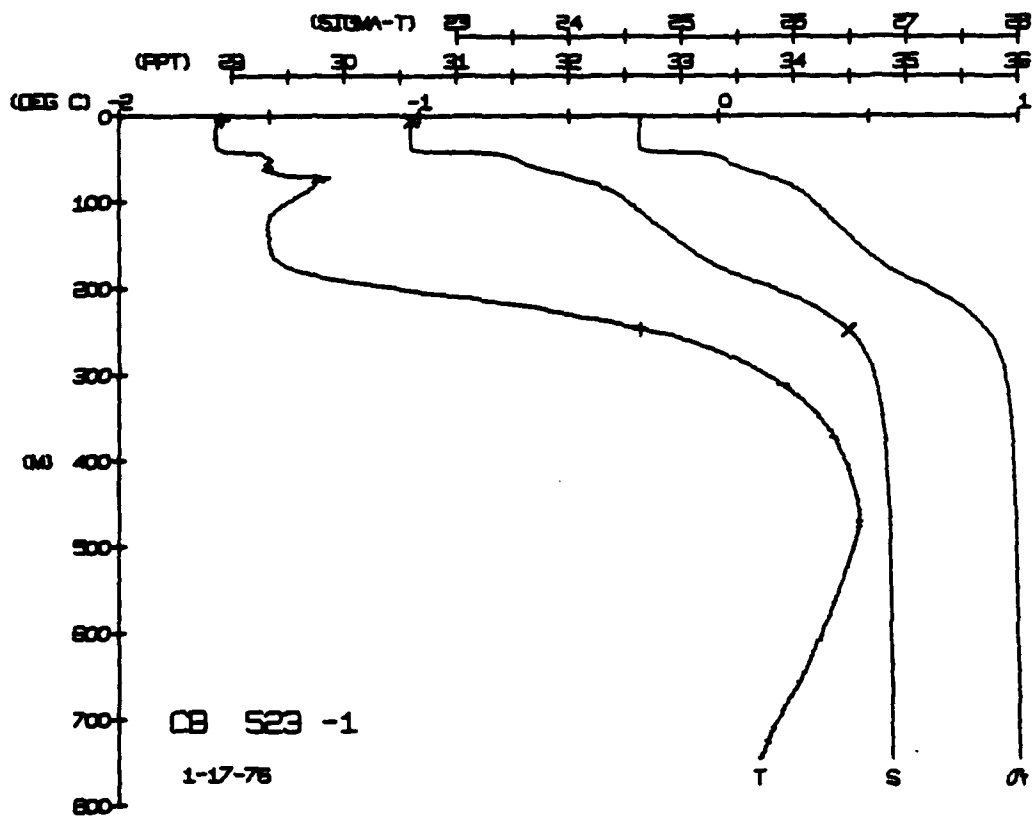


CARIBOU STATION 521(1) STD 16/JAN/1976 1015 GMT CODE = 1  
LAT = 73.1410N LNC = 143.3914W LTER = 1, LGER = 1,  
AIR TEMP = -43.2 BAROM = 1010.5 WIND = 276.1 SPEED = 37.4[illegible]

	DEPTH	TEMP.	SALIN.
BOF NUM = 1	4.9	-1.67	30.59
BOF NUM = 2	494.7	0.45	34.66

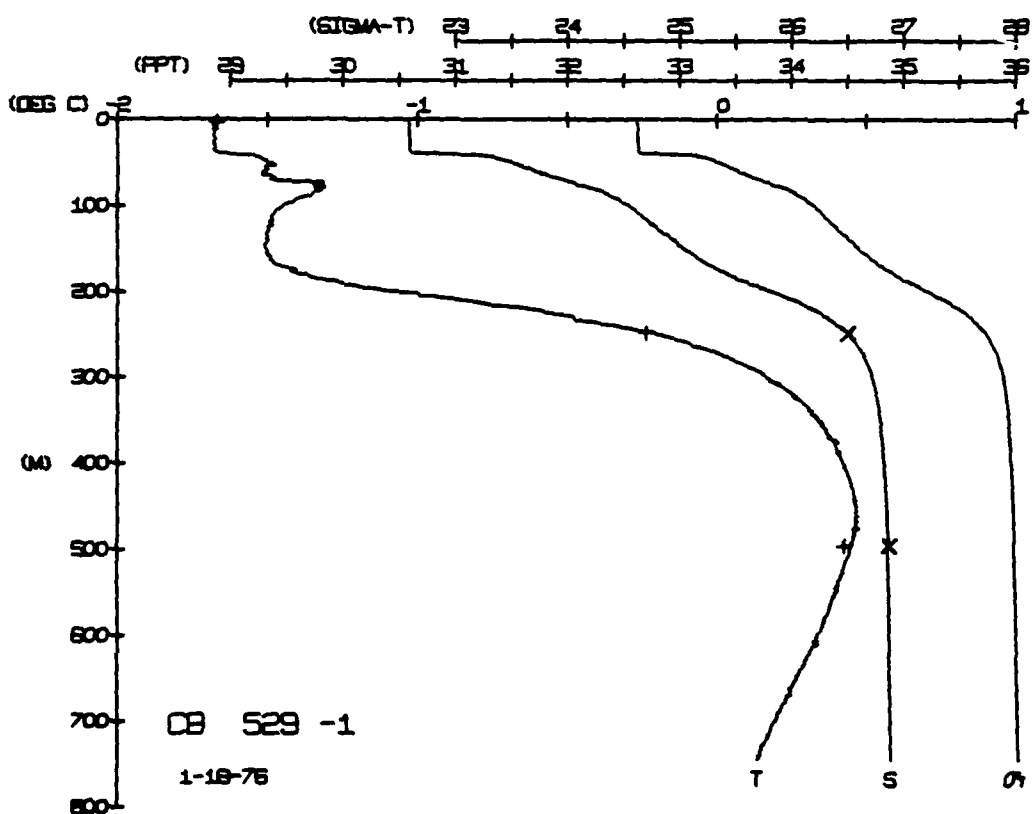
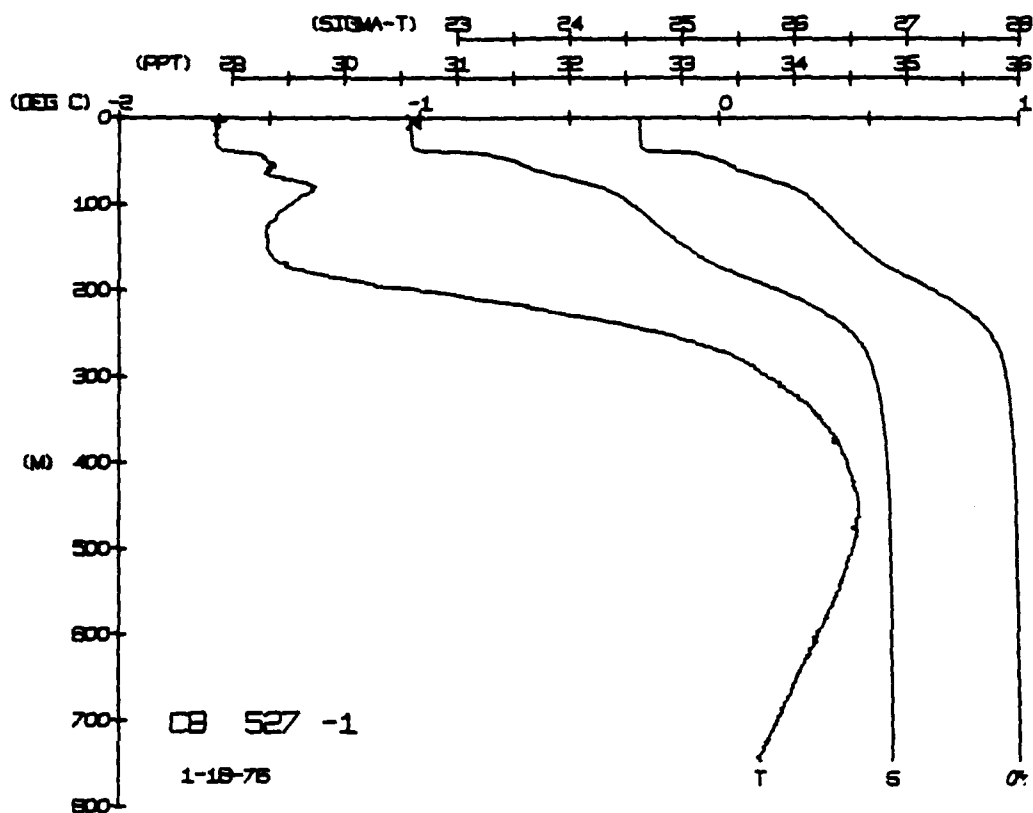




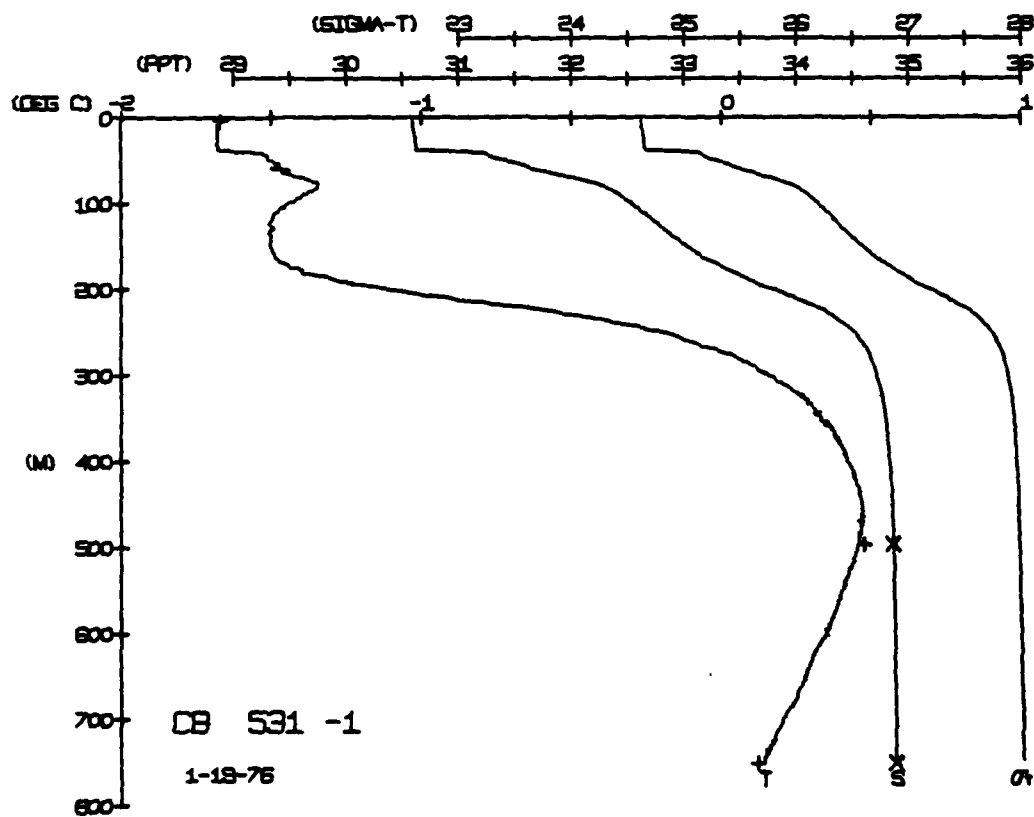
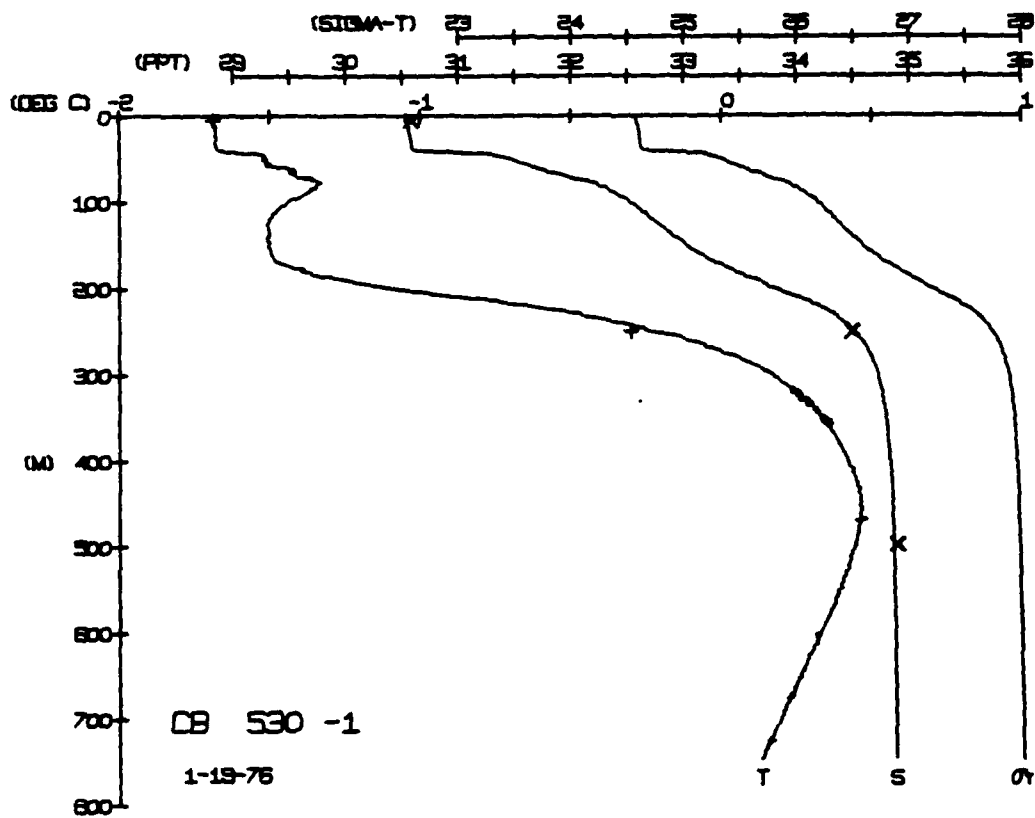




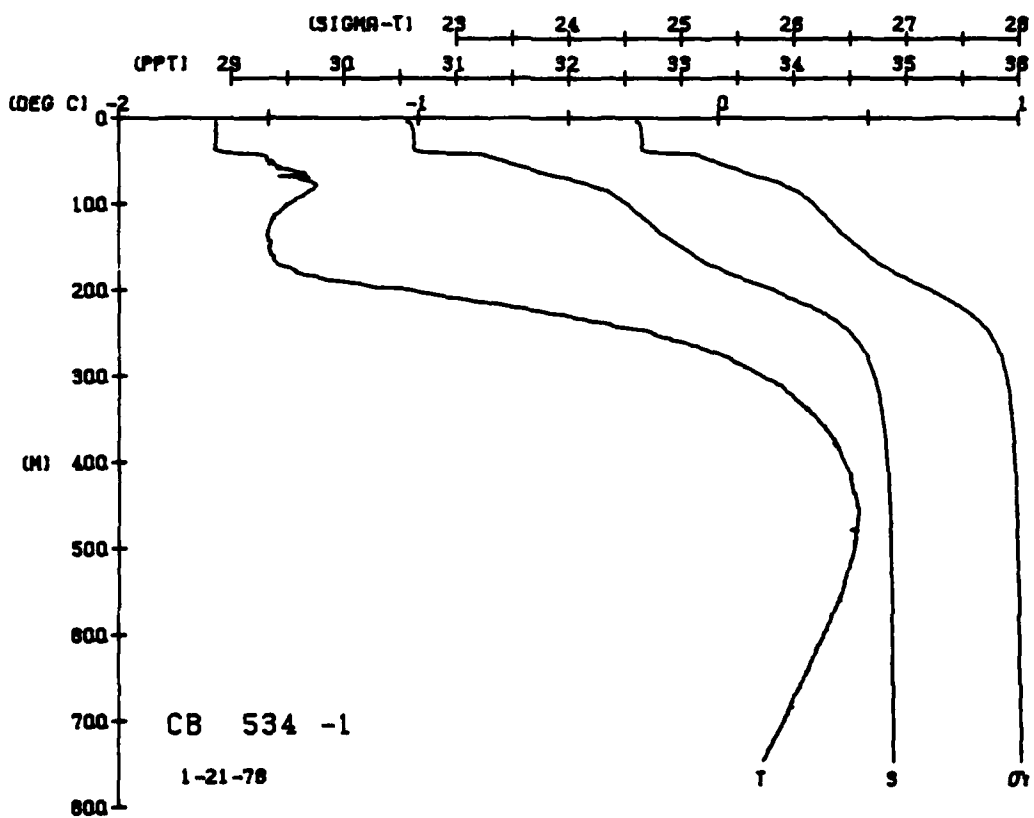
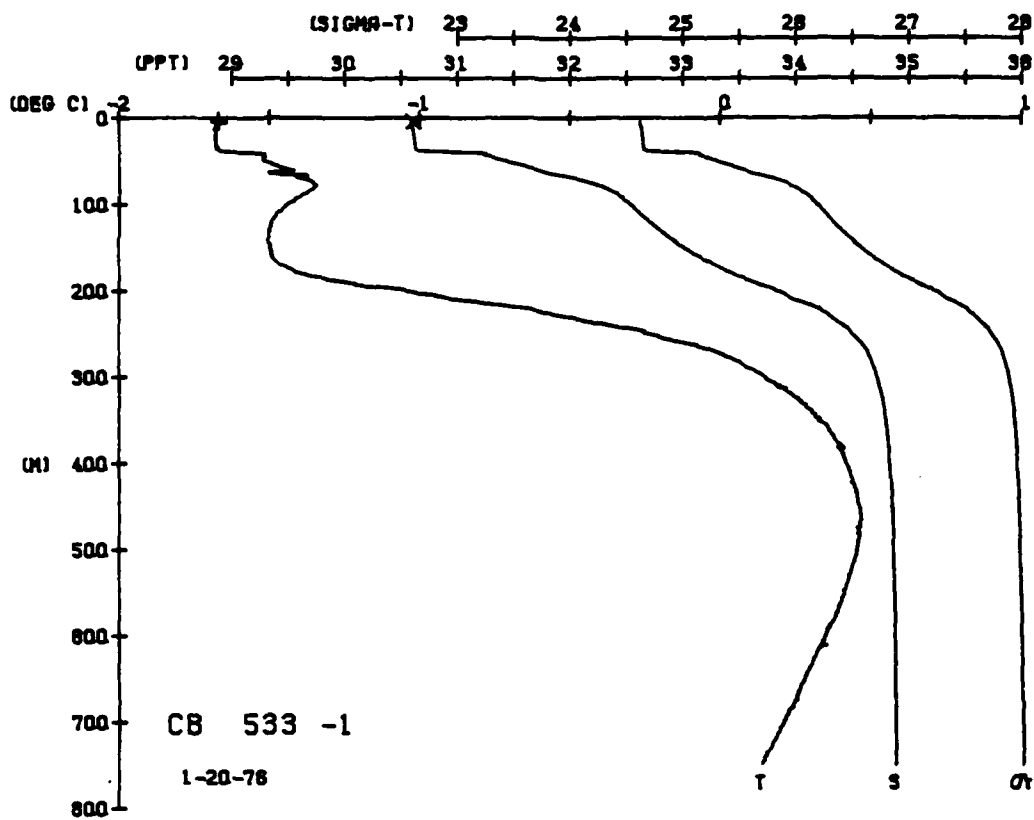




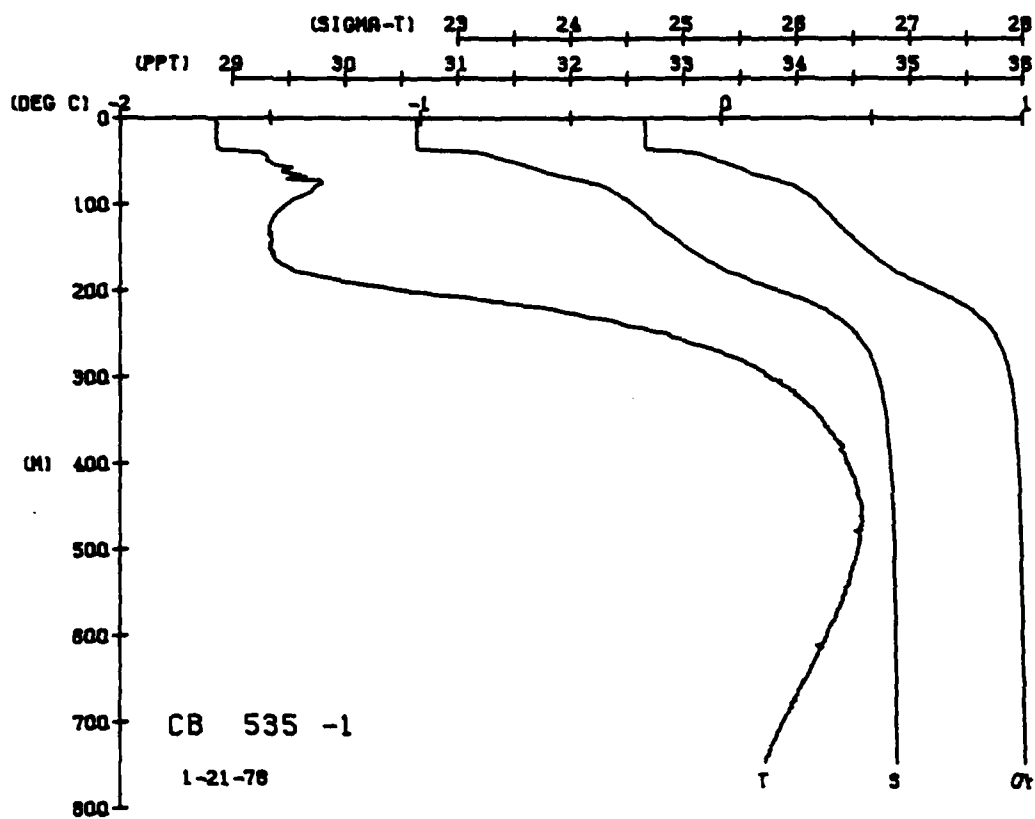






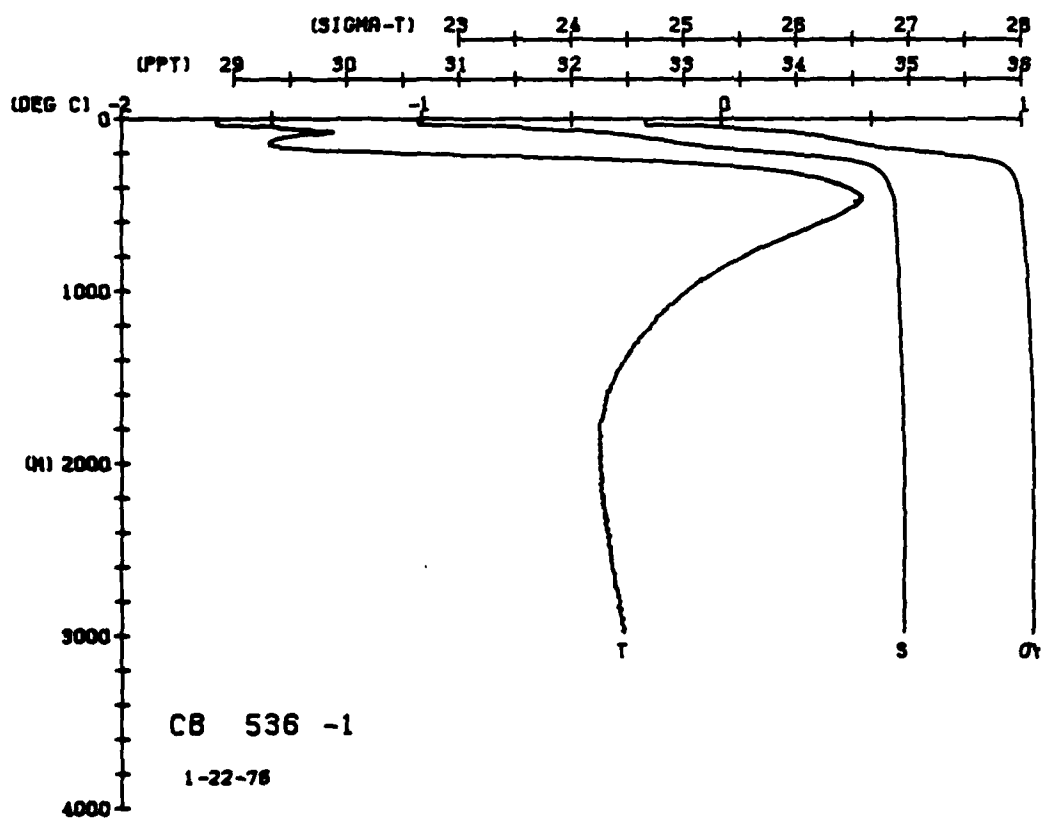
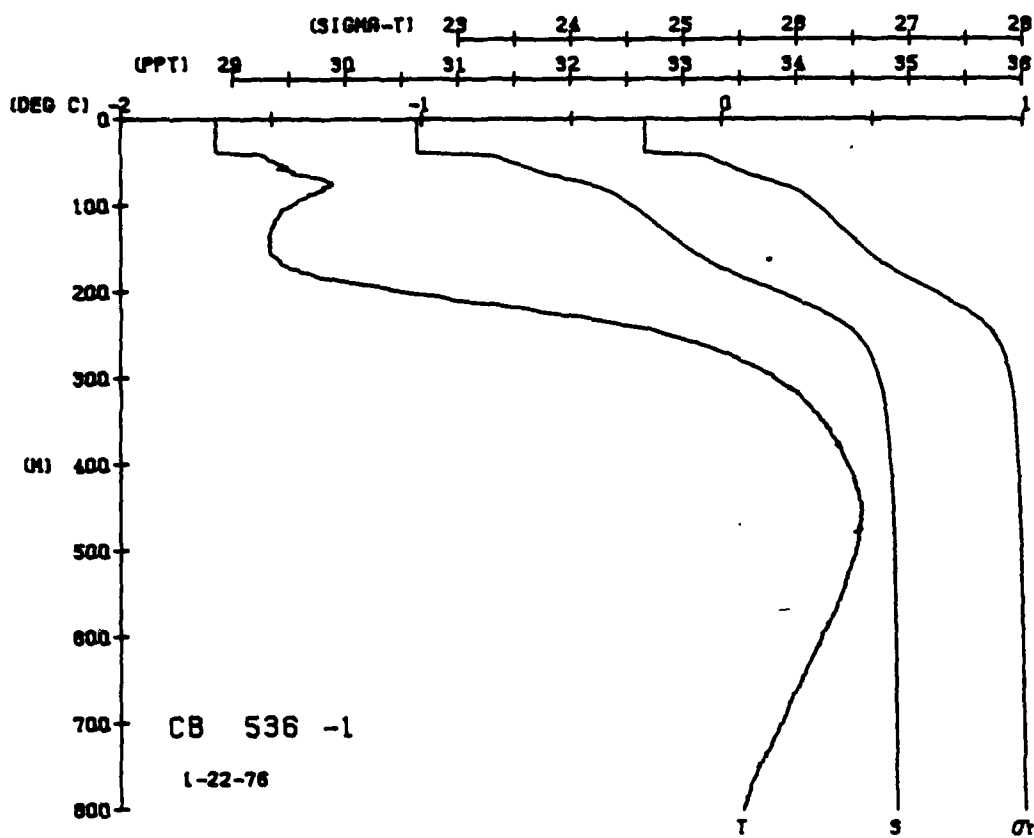




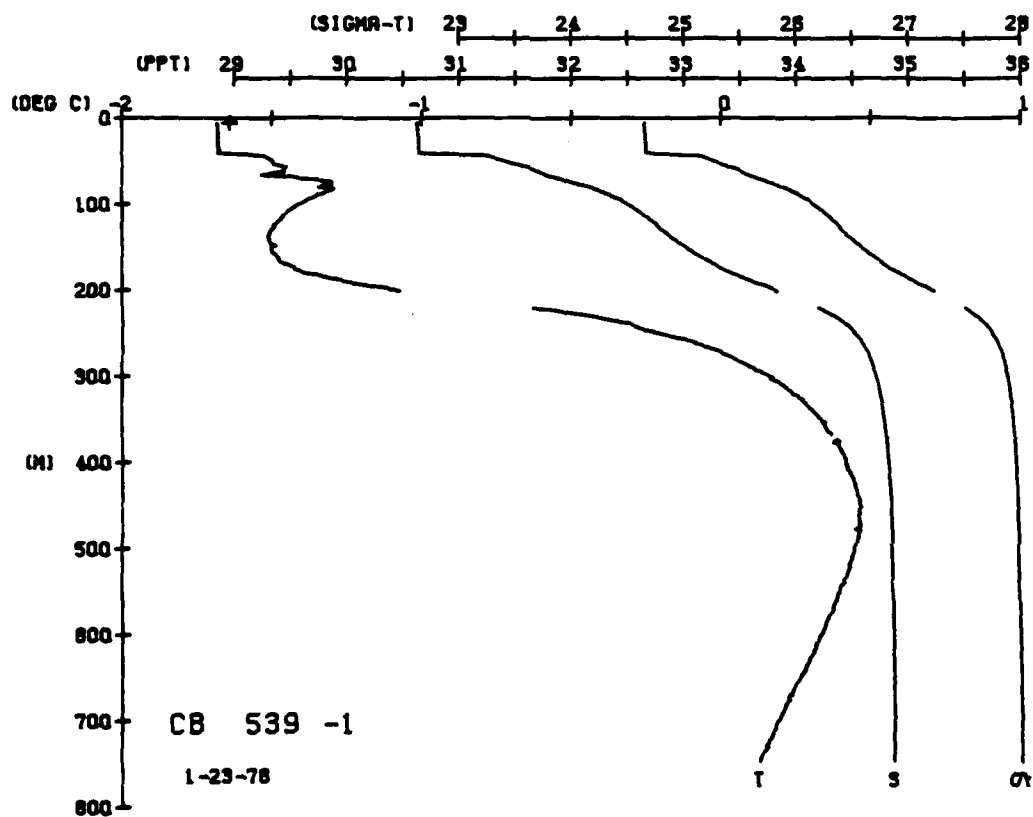
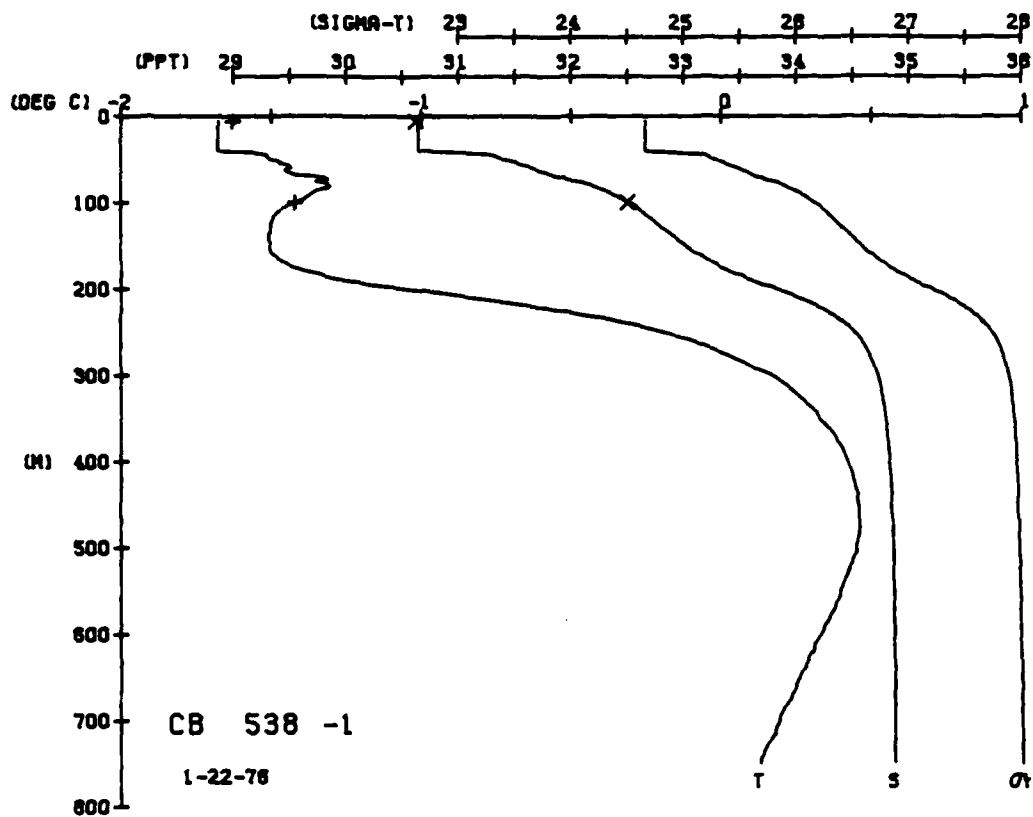




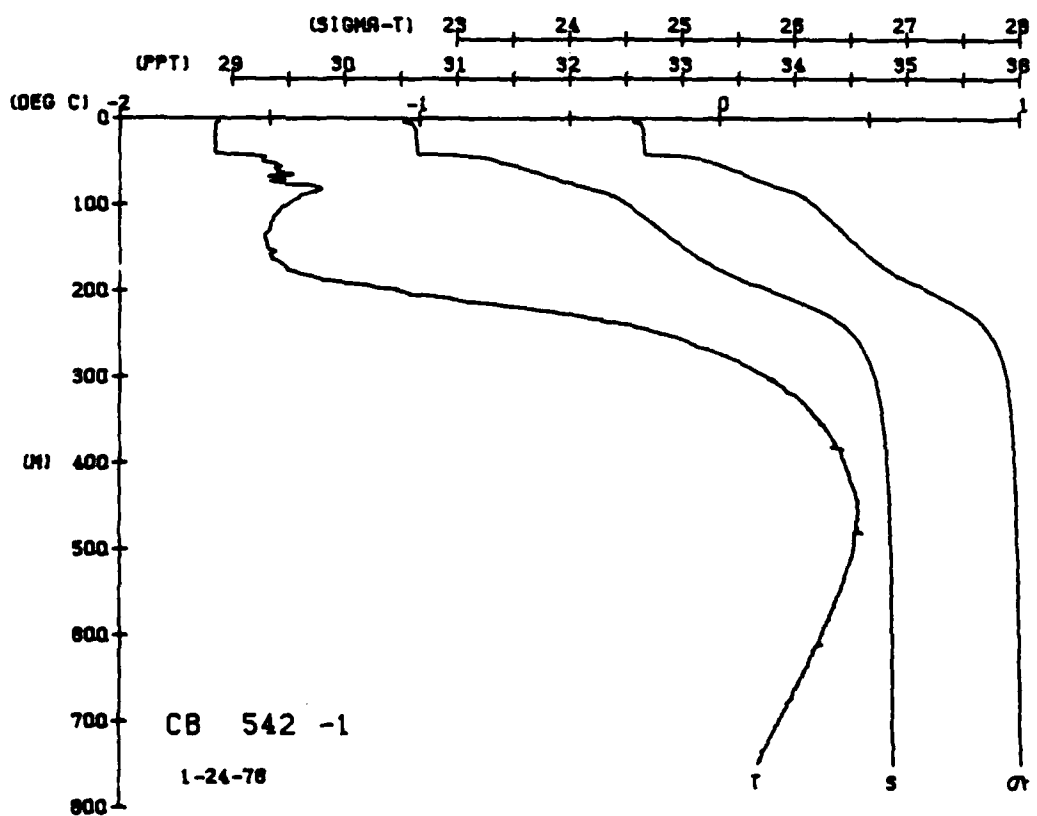
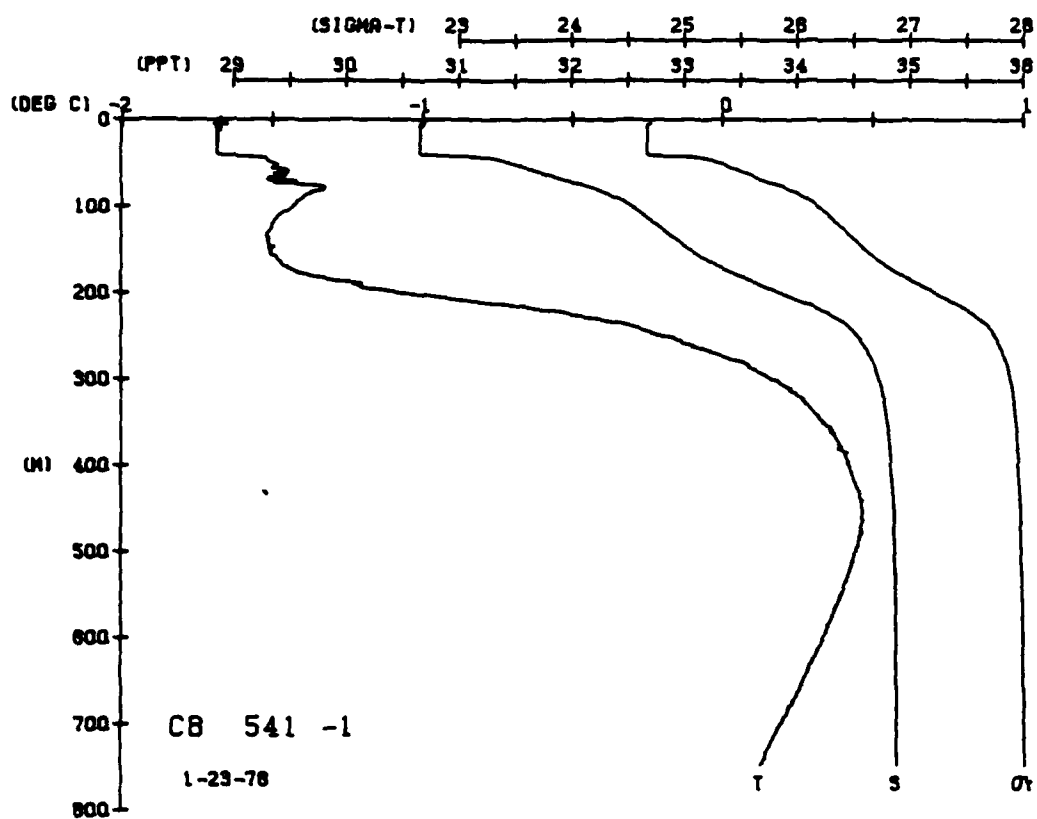




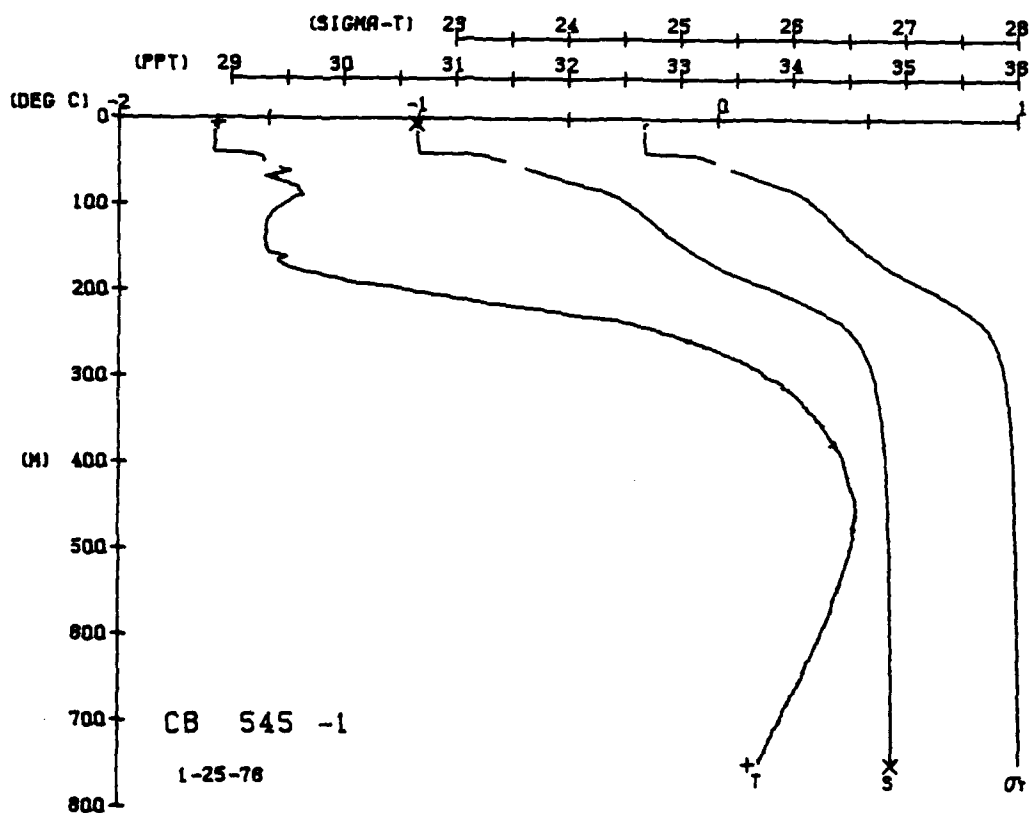
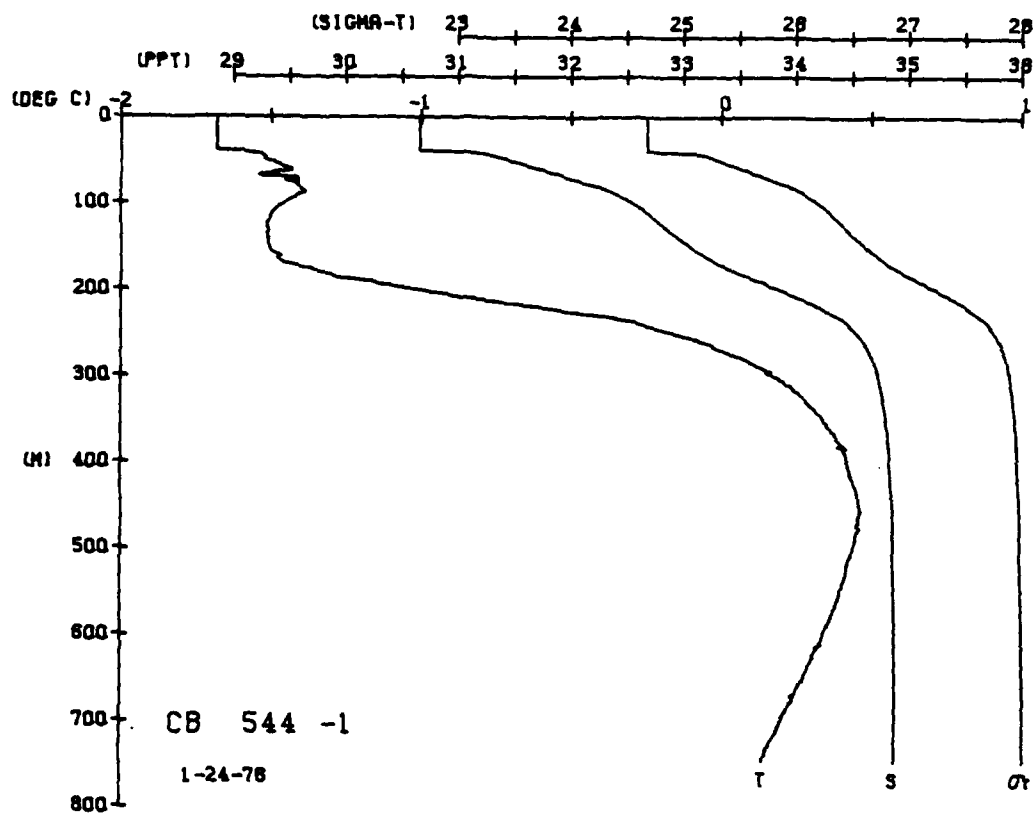






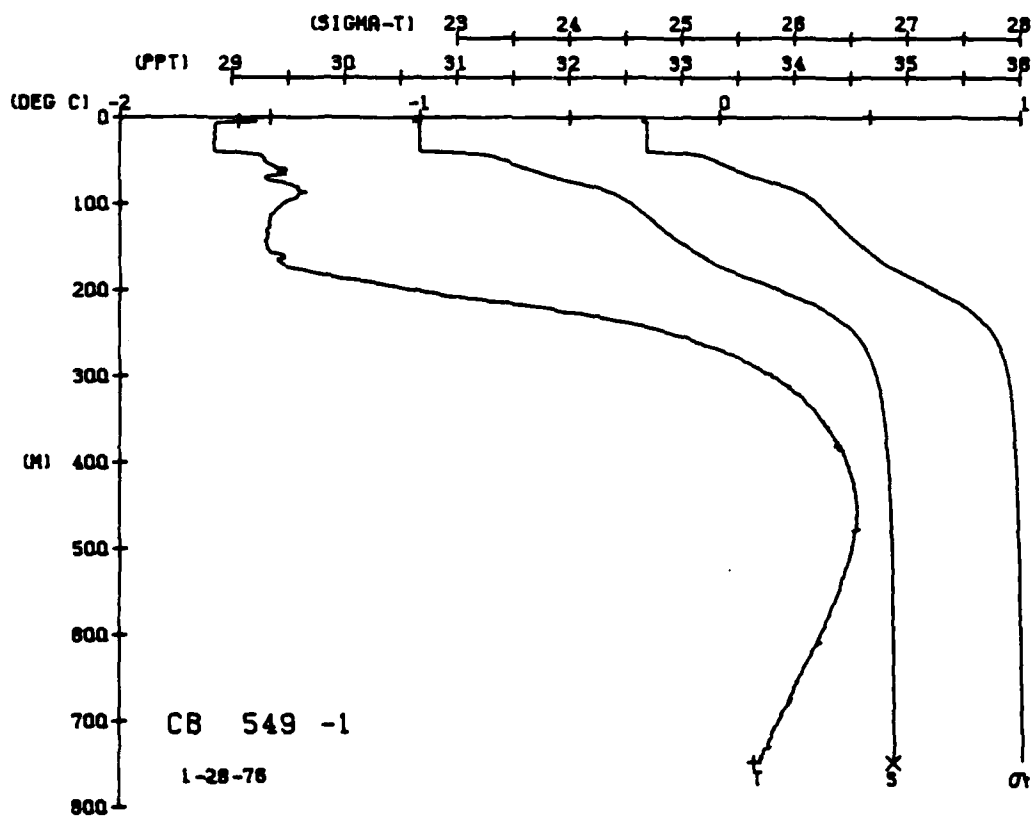
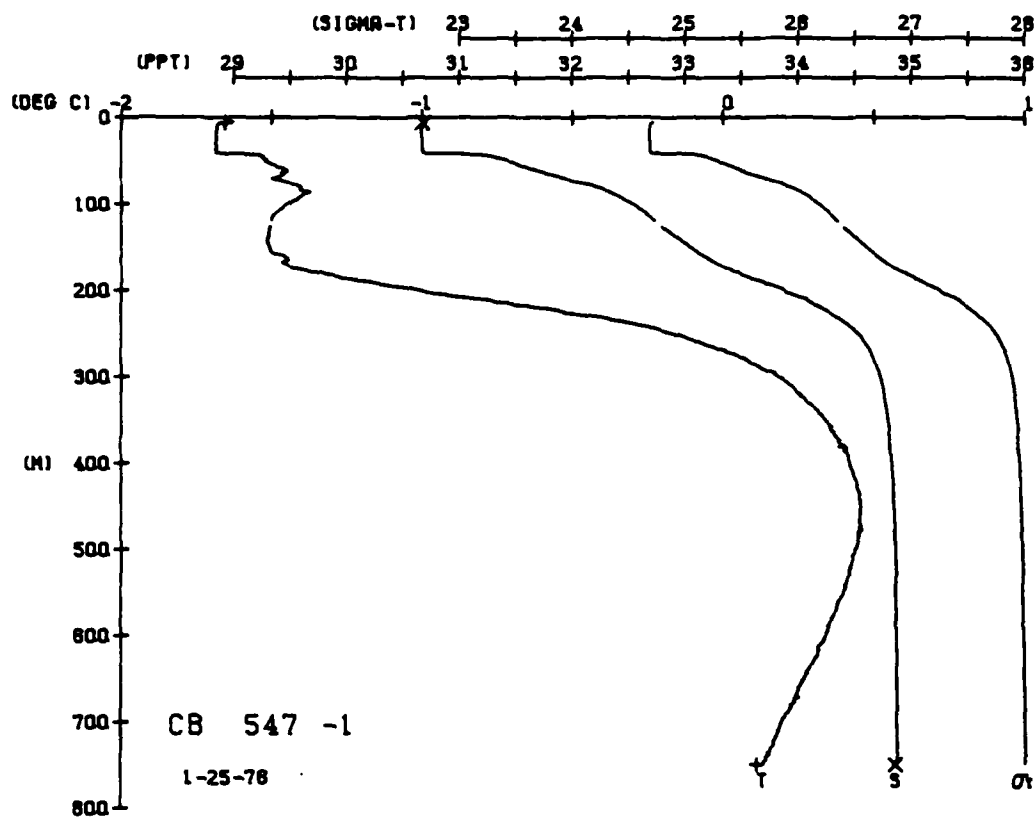




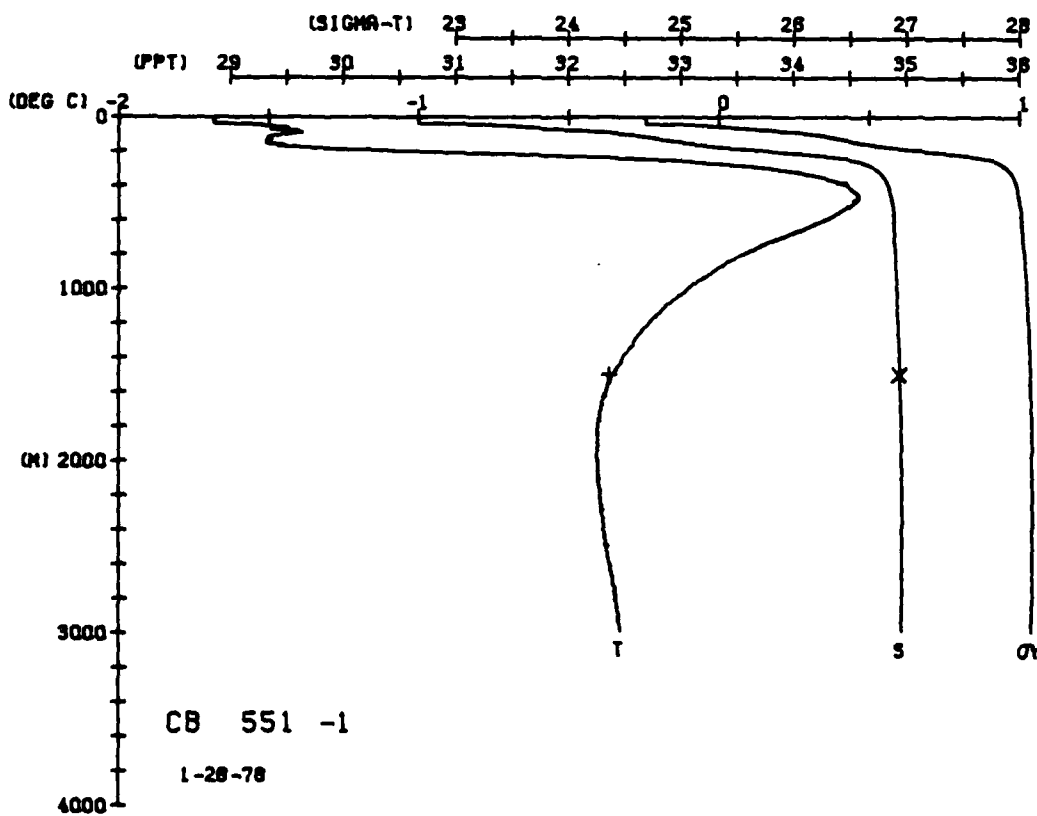
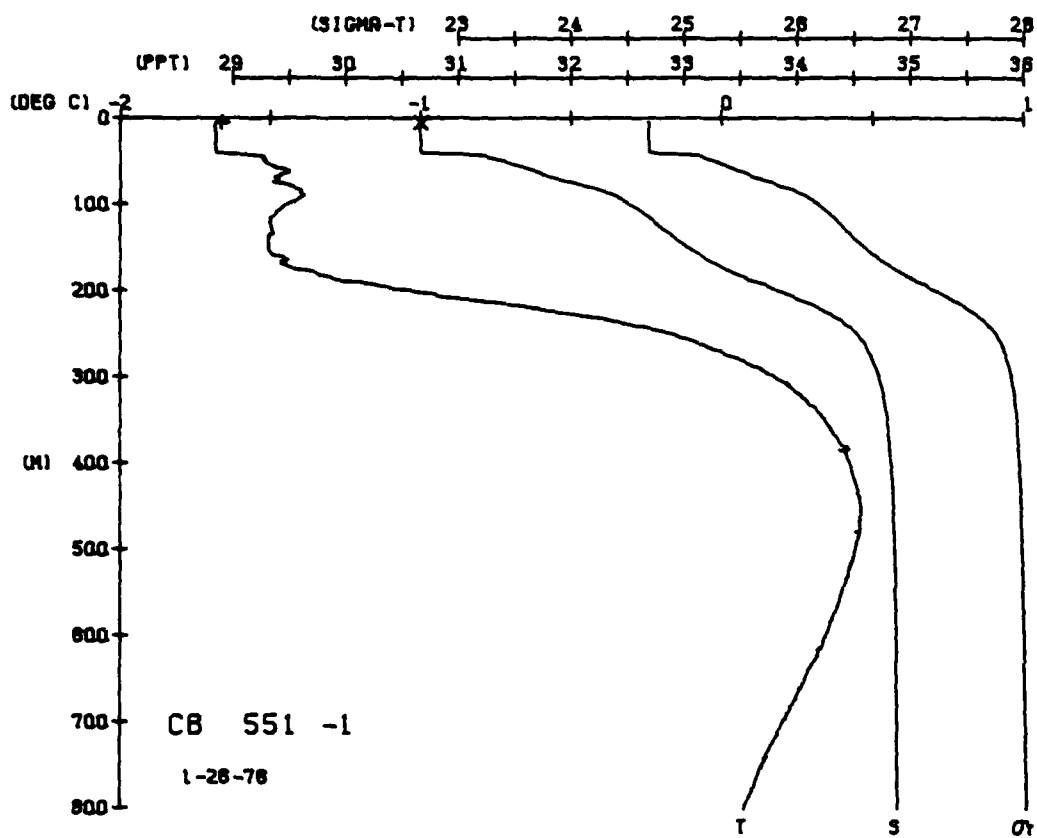












CARIBOU STATION 552(1) STD 28/JAN/1976 615 GMT CODE = 1  
LAT 73.0473N LONG 143.4089W UTM = 143.4089W UTM = 143.4089W  
AIR TEMP = -38.9 BAROM = 1012.8 WIND = 324.9 SPEED = 19.9

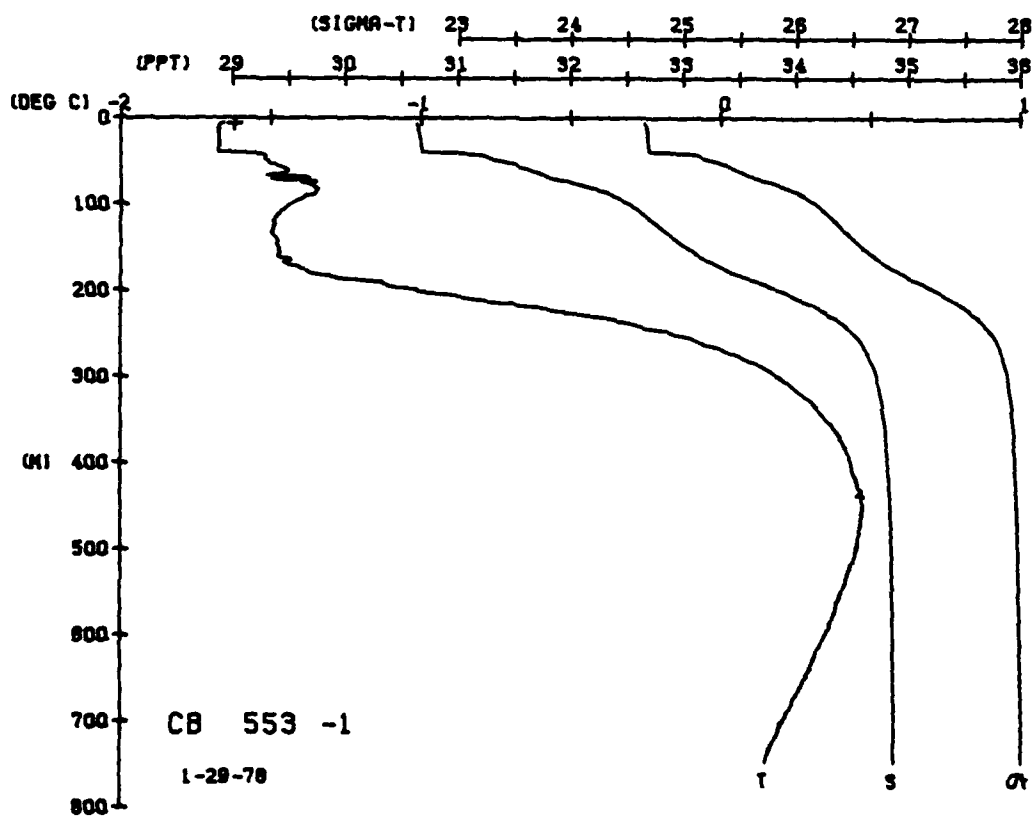
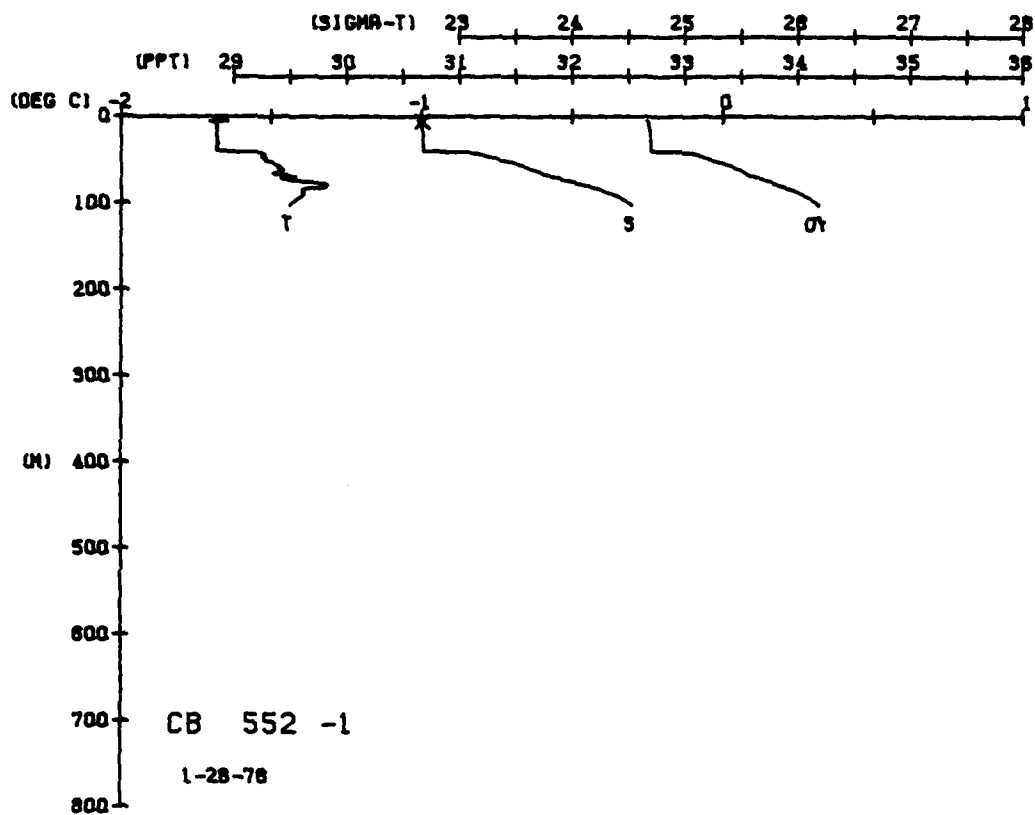
DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHHT	SOUND
00	66	55	30	7	66	00	45
05	66	55	30	7	66	00	45
10	66	55	30	7	66	00	45
15	66	55	30	7	66	00	45
20	66	55	30	7	66	00	45
25	66	55	30	7	66	00	45
30	66	55	30	7	66	00	45
35	66	55	30	7	66	00	45
40	66	55	30	7	66	00	45
45	66	55	30	7	66	00	45
50	66	55	30	7	66	00	45
55	66	55	30	7	66	00	45
60	66	55	30	7	66	00	45
65	66	55	30	7	66	00	45
70	66	55	30	7	66	00	45
75	66	55	30	7	66	00	45
80	66	55	30	7	66	00	45
85	66	55	30	7	66	00	45
90	66	55	30	7	66	00	45
95	66	55	30	7	66	00	45
100	66	55	30	7	66	00	45

DEPTH 748.5  
TEMP. -1.69  
SALIN 30.68  
BOT NUM = 1  
BOT NUM = 2

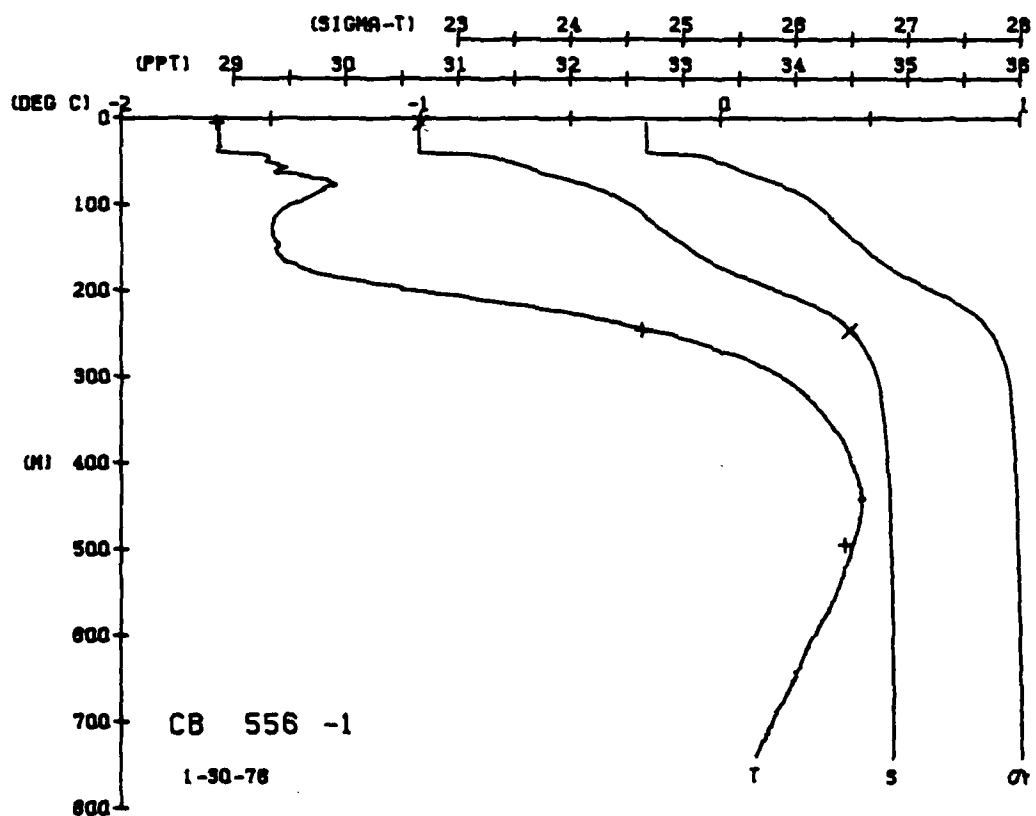
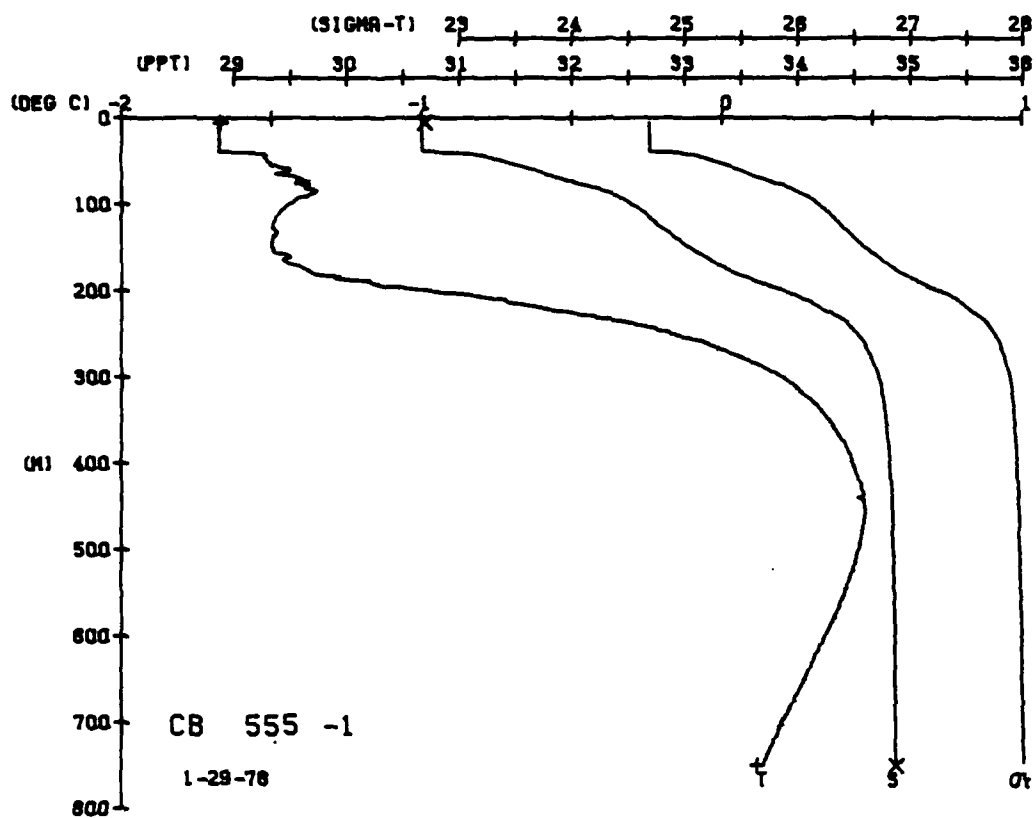
CARIBOU STATION 553(1) STD 29/JAN/1976 500 GMT CODE = 1  
LAT 73.0477N LONG 143.4106W UTM = 143.4106W UTM = 143.4106W  
AIR TEMP = -38.9 BAROM = 1008.6 WIND = 79.9 SPEED = 36.0

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYHHT	SOUND
00	66	55	30	7	66	00	45
05	66	55	30	7	66	00	45
10	66	55	30	7	66	00	45
15	66	55	30	7	66	00	45
20	66	55	30	7	66	00	45
25	66	55	30	7	66	00	45
30	66	55	30	7	66	00	45
35	66	55	30	7	66	00	45
40	66	55	30	7	66	00	45
45	66	55	30	7	66	00	45
50	66	55	30	7	66	00	45
55	66	55	30	7	66	00	45
60	66	55	30	7	66	00	45
65	66	55	30	7	66	00	45
70	66	55	30	7	66	00	45
75	66	55	30	7	66	00	45
80	66	55	30	7	66	00	45
85	66	55	30	7	66	00	45
90	66	55	30	7	66	00	45
95	66	55	30	7	66	00	45
100	66	55	30	7	66	00	45

DEPTH 748.7  
TEMP. -1.62  
SALIN 34.89  
BOT NUM = 1  
BOT NUM = 2

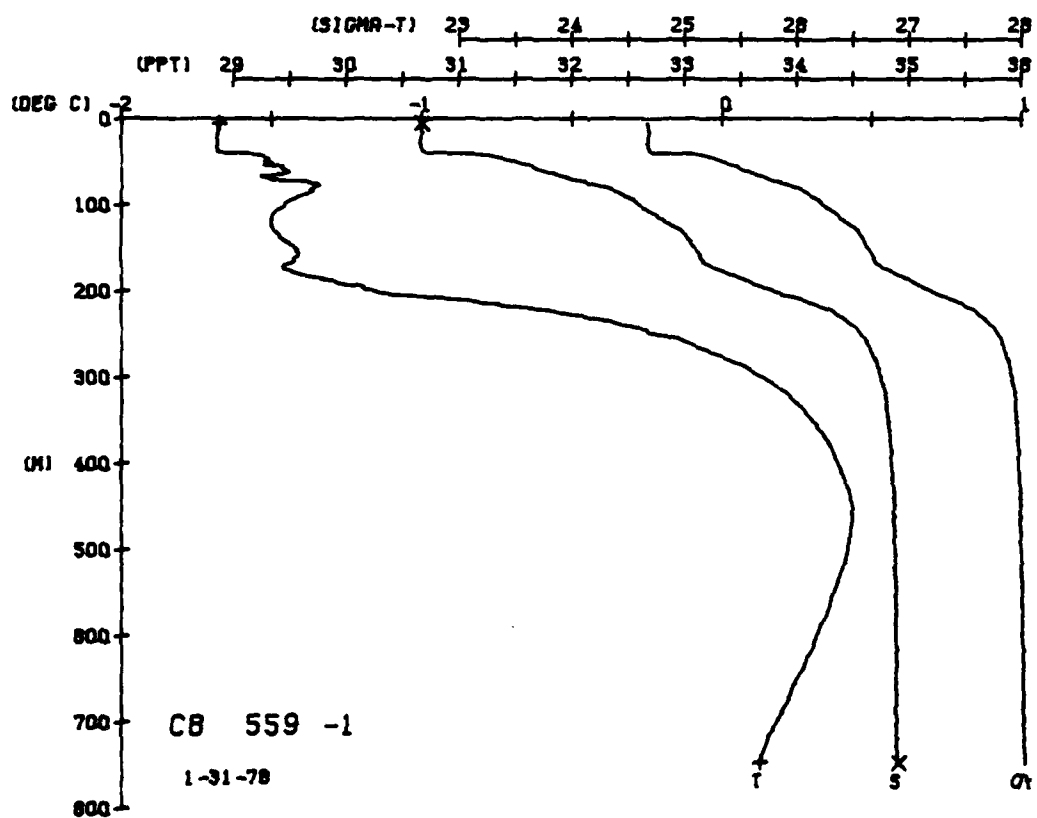
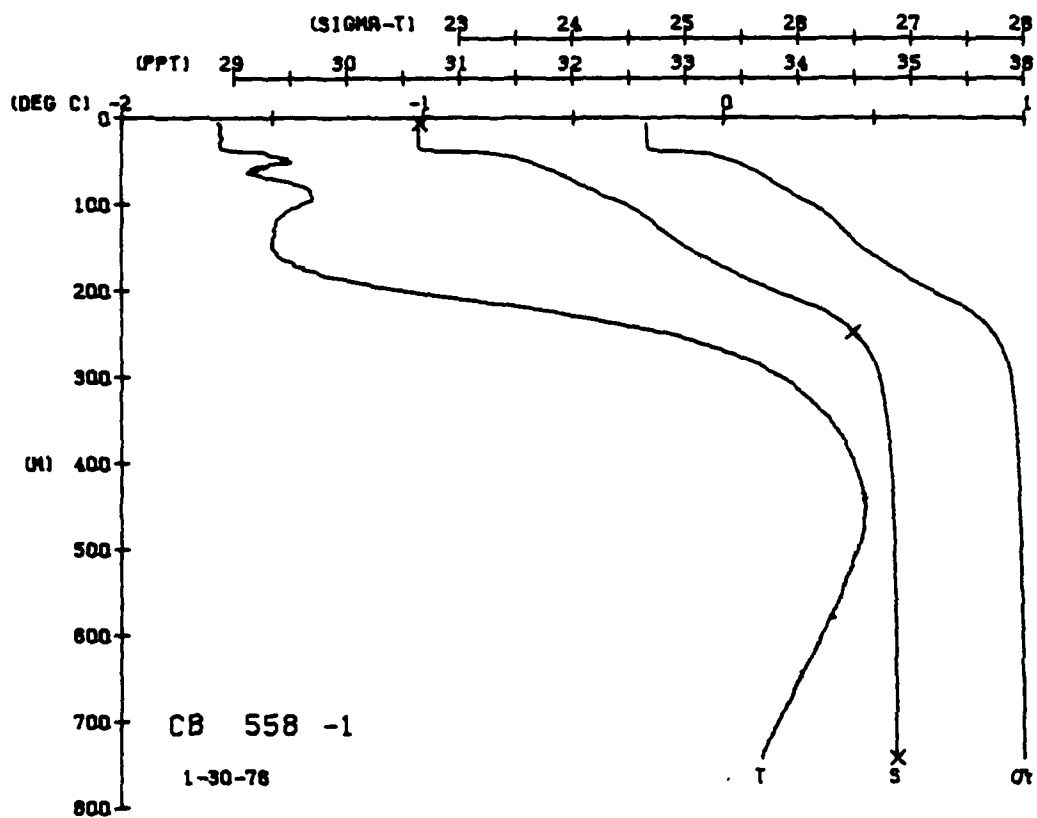




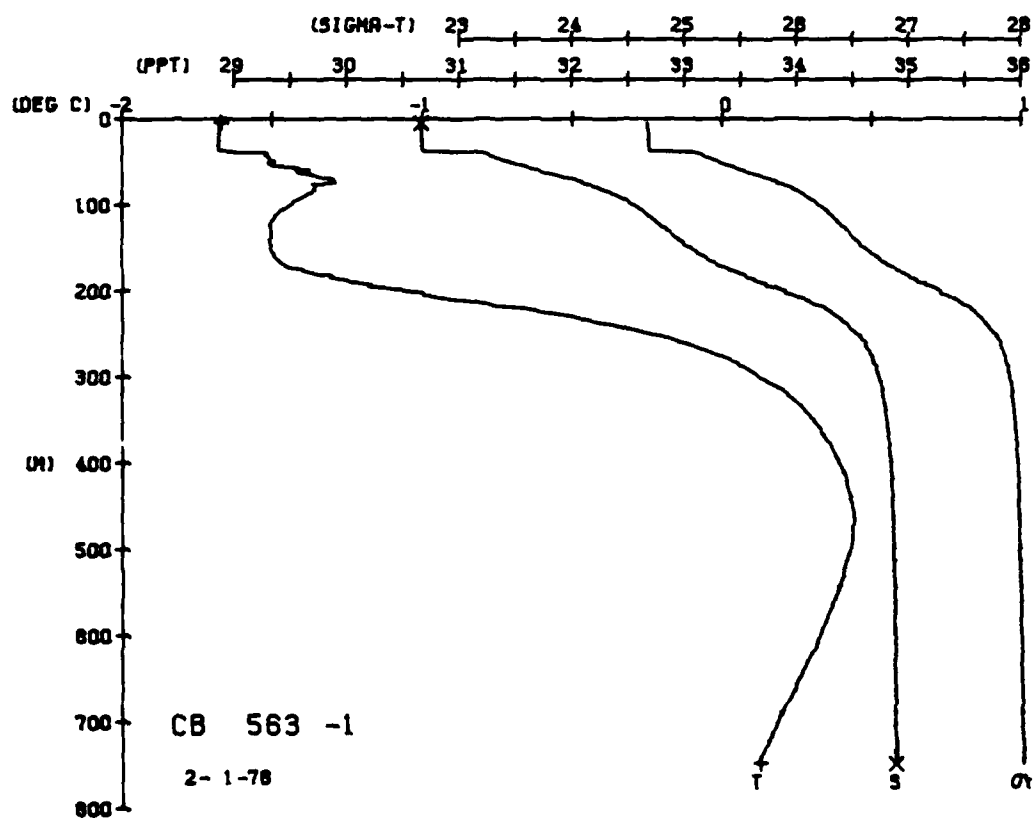
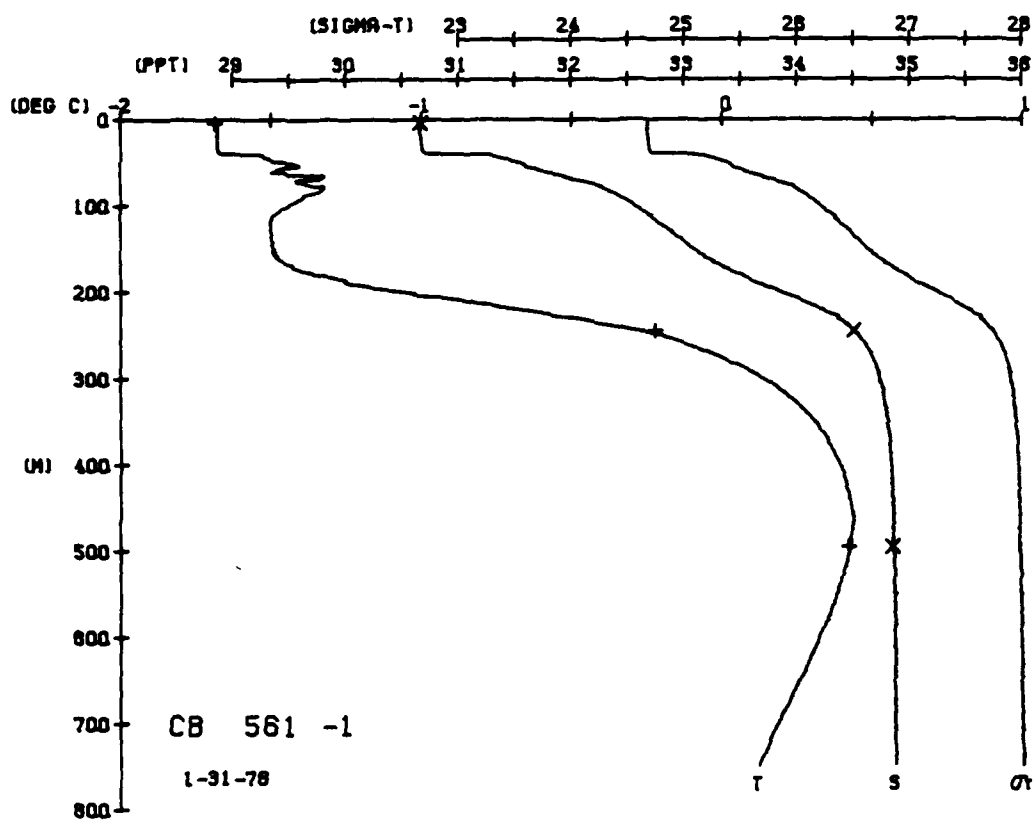




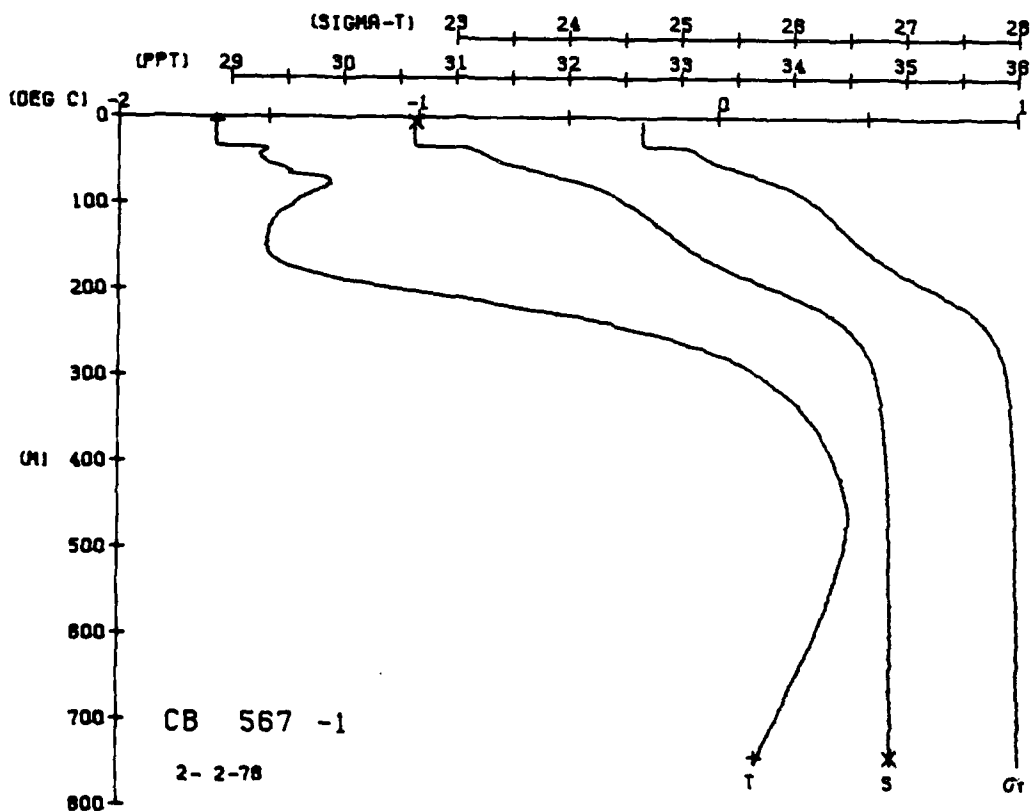
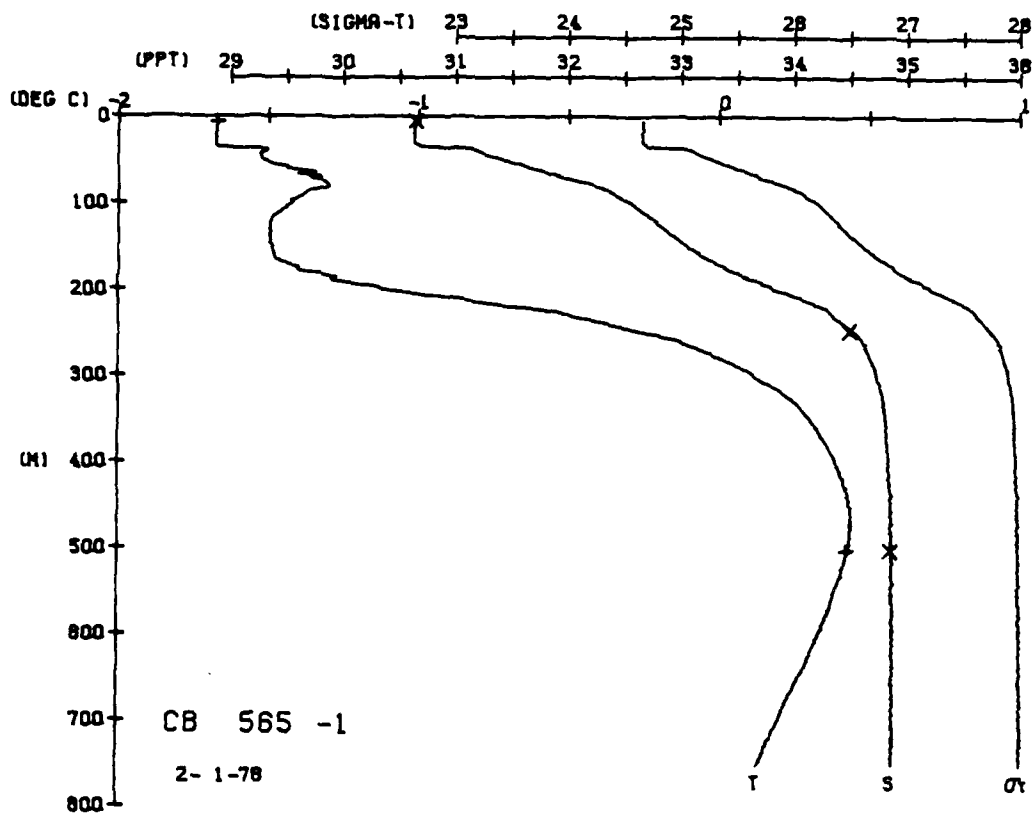












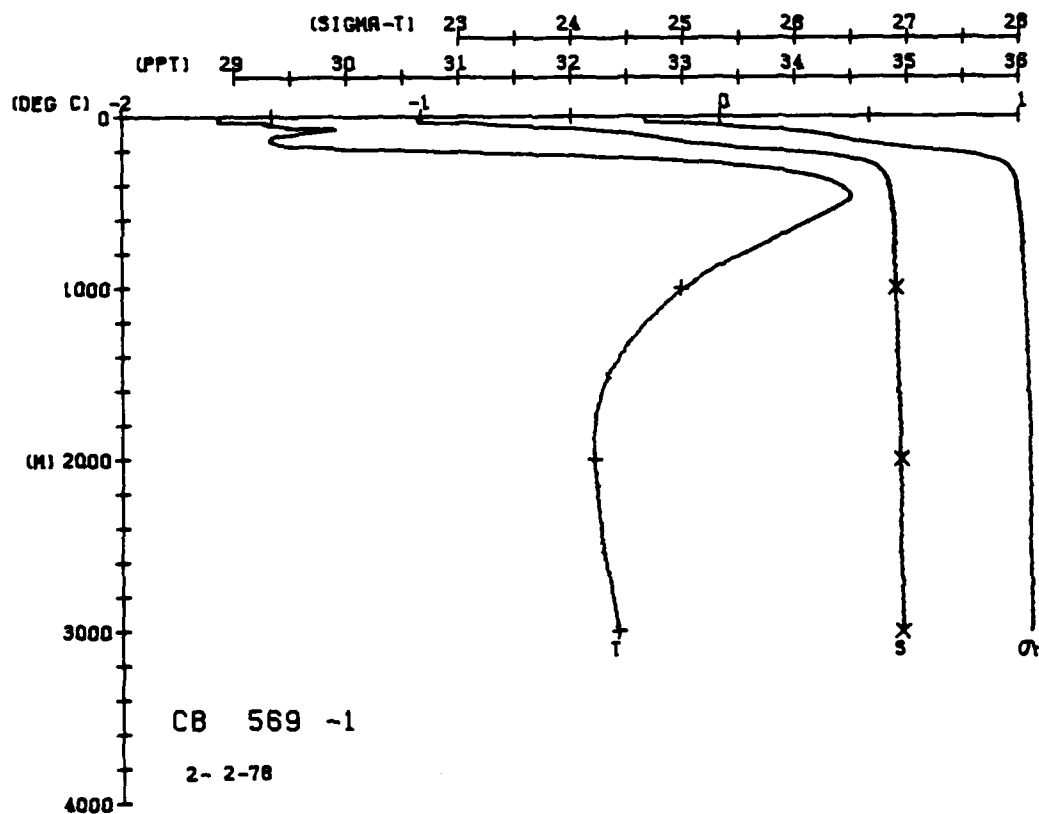
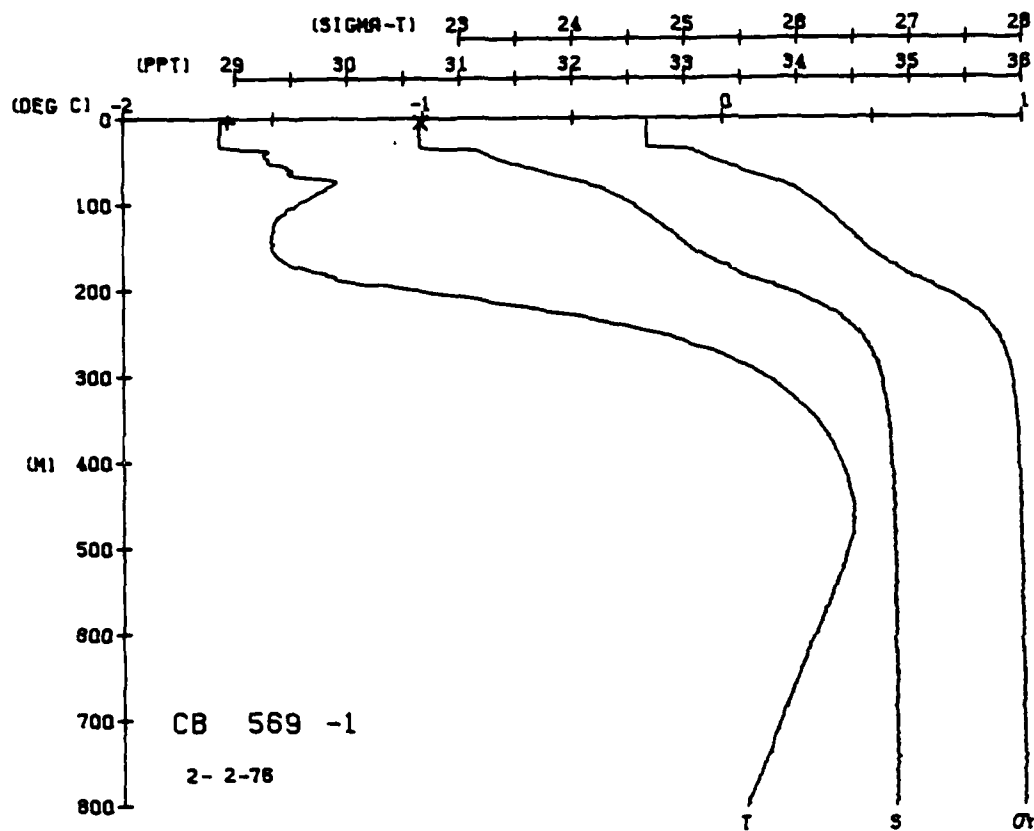
CARIBOU STATION 569(1) CTD 2/FEB/1976 1800 GMT CODE = 1  
 LAT = 73.1137N LNG = 144.1207W UTM = 0  
 AIR TEMP = -31.3 BAROM = 1026.5 WIND = 213.1 SPEED = 37.5

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	67	67	30.64	22	8	0	1435
5	67	67	30.64	22	8	0	1435
10	67	67	30.64	22	8	0	1435
15	67	67	30.64	22	8	0	1435
20	67	67	30.64	22	8	0	1435
25	67	67	30.64	22	8	0	1435
30	67	67	30.64	22	8	0	1435
35	67	67	30.64	22	8	0	1435
40	67	67	30.64	22	8	0	1435
45	67	67	30.64	22	8	0	1435
50	67	67	30.64	22	8	0	1435
55	67	67	30.64	22	8	0	1435
60	67	67	30.64	22	8	0	1435
65	67	67	30.64	22	8	0	1435
70	67	67	30.64	22	8	0	1435
75	67	67	30.64	22	8	0	1435
80	67	67	30.64	22	8	0	1435
85	67	67	30.64	22	8	0	1435
90	67	67	30.64	22	8	0	1435
95	67	67	30.64	22	8	0	1435
100	67	67	30.64	22	8	0	1435
105	67	67	30.64	22	8	0	1435
110	67	67	30.64	22	8	0	1435
115	67	67	30.64	22	8	0	1435
120	67	67	30.64	22	8	0	1435
125	67	67	30.64	22	8	0	1435
130	67	67	30.64	22	8	0	1435
135	67	67	30.64	22	8	0	1435
140	67	67	30.64	22	8	0	1435
145	67	67	30.64	22	8	0	1435
150	67	67	30.64	22	8	0	1435
155	67	67	30.64	22	8	0	1435
160	67	67	30.64	22	8	0	1435
165	67	67	30.64	22	8	0	1435
170	67	67	30.64	22	8	0	1435
175	67	67	30.64	22	8	0	1435
180	67	67	30.64	22	8	0	1435
185	67	67	30.64	22	8	0	1435
190	67	67	30.64	22	8	0	1435
195	67	67	30.64	22	8	0	1435
200	67	67	30.64	22	8	0	1435
205	67	67	30.64	22	8	0	1435
210	67	67	30.64	22	8	0	1435
215	67	67	30.64	22	8	0	1435
220	67	67	30.64	22	8	0	1435
225	67	67	30.64	22	8	0	1435
230	67	67	30.64	22	8	0	1435
235	67	67	30.64	22	8	0	1435
240	67	67	30.64	22	8	0	1435
245	67	67	30.64	22	8	0	1435
250	67	67	30.64	22	8	0	1435
255	67	67	30.64	22	8	0	1435
260	67	67	30.64	22	8	0	1435
265	67	67	30.64	22	8	0	1435
270	67	67	30.64	22	8	0	1435
275	67	67	30.64	22	8	0	1435
280	67	67	30.64	22	8	0	1435
285	67	67	30.64	22	8	0	1435
290	67	67	30.64	22	8	0	1435
295	67	67	30.64	22	8	0	1435
300	67	67	30.64	22	8	0	1435

DEPTH 5.0  
 TEMP. -1.65  
 SALIN 30.65  
 SIG T 28.05  
 SPVUL 7.58  
 DYNHT 0.52  
 SOUND 1463

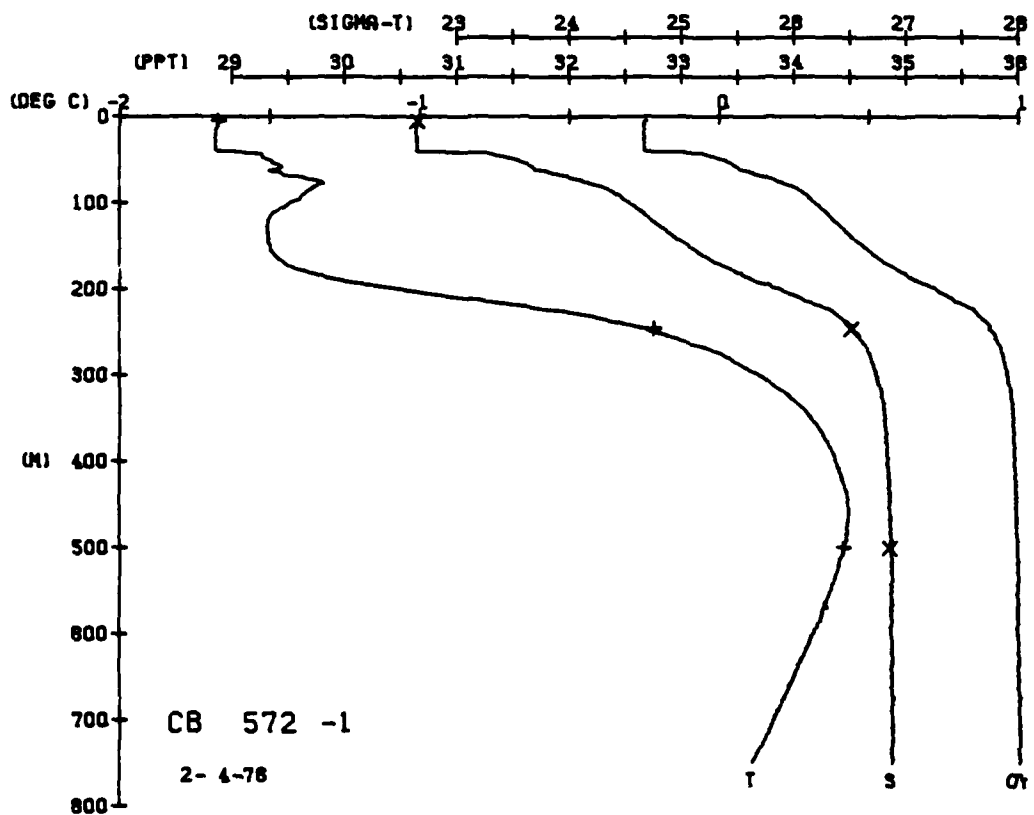
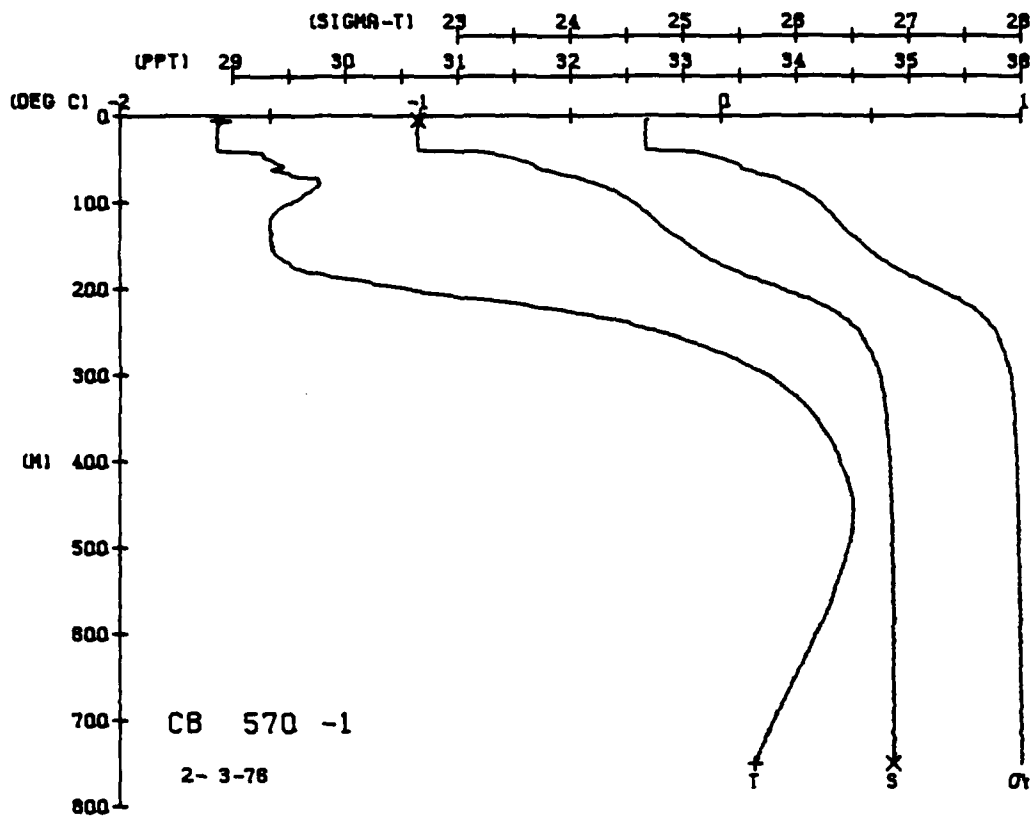
DEPTH 5.0  
 TEMP. -1.65  
 SALIN 30.65  
 SIG T 28.05  
 SPVUL 7.58  
 DYNHT 0.52  
 SOUND 1463

DEPTH 5.0  
 TEMP. -1.65  
 SALIN 30.65  
 SIG T 28.05  
 SPVUL 7.58  
 DYNHT 0.52  
 SOUND 1463

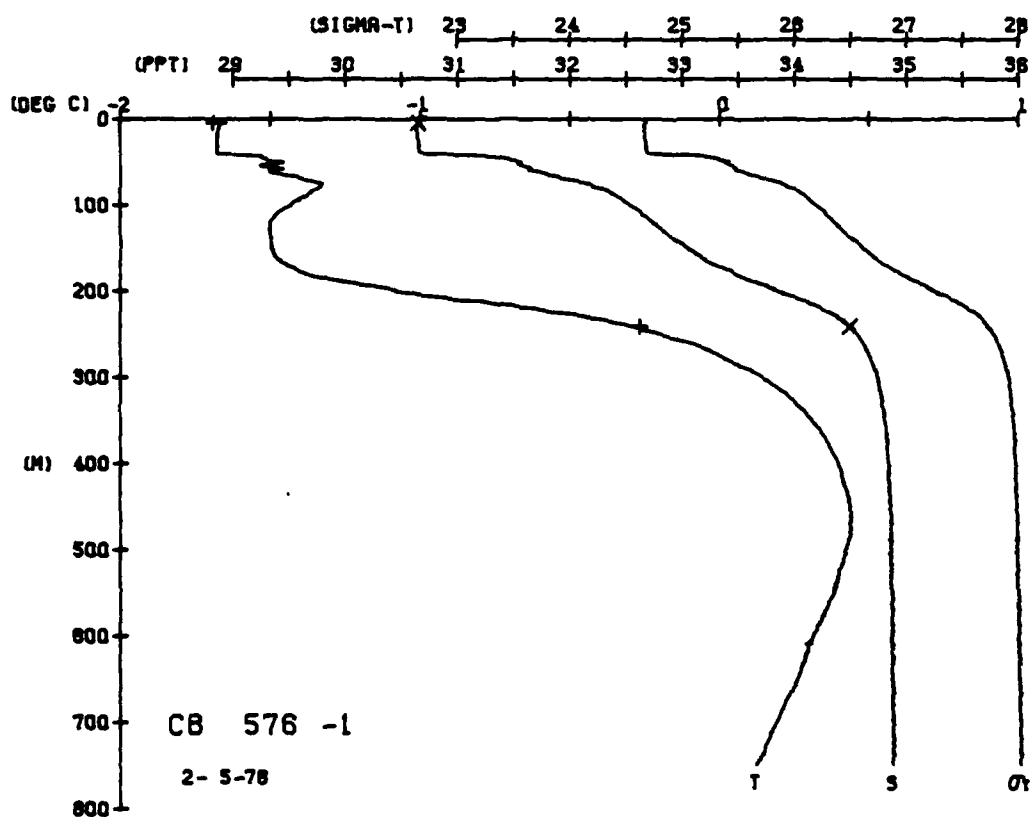
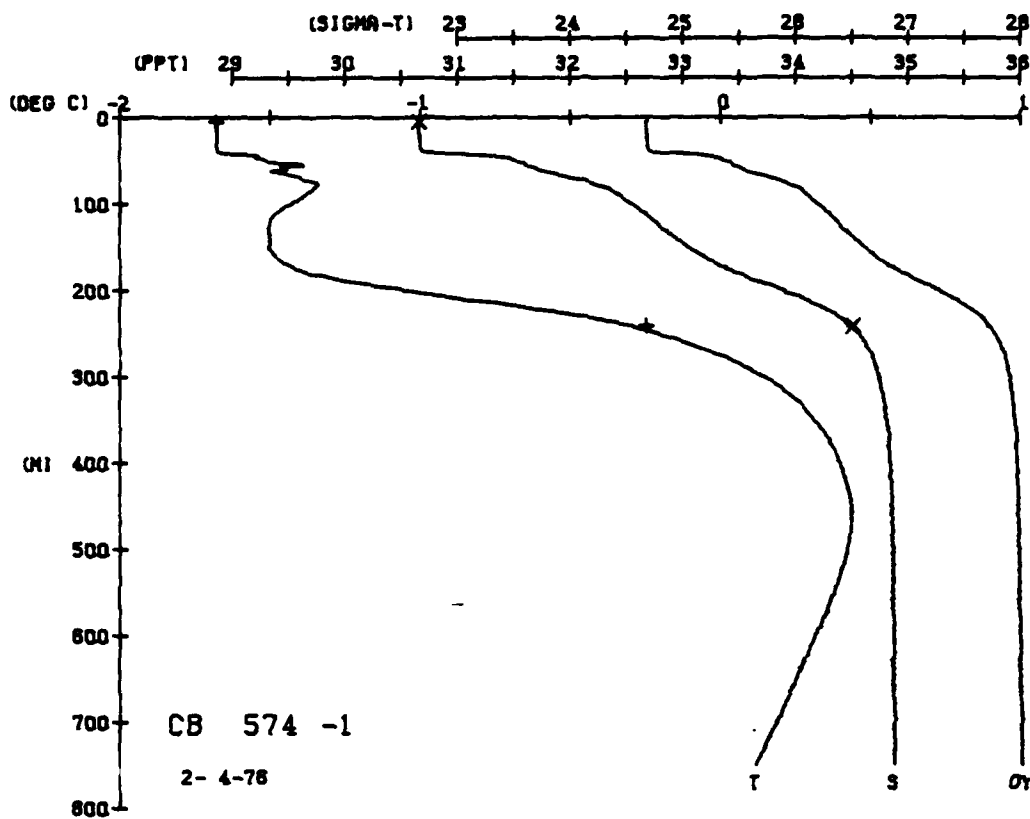




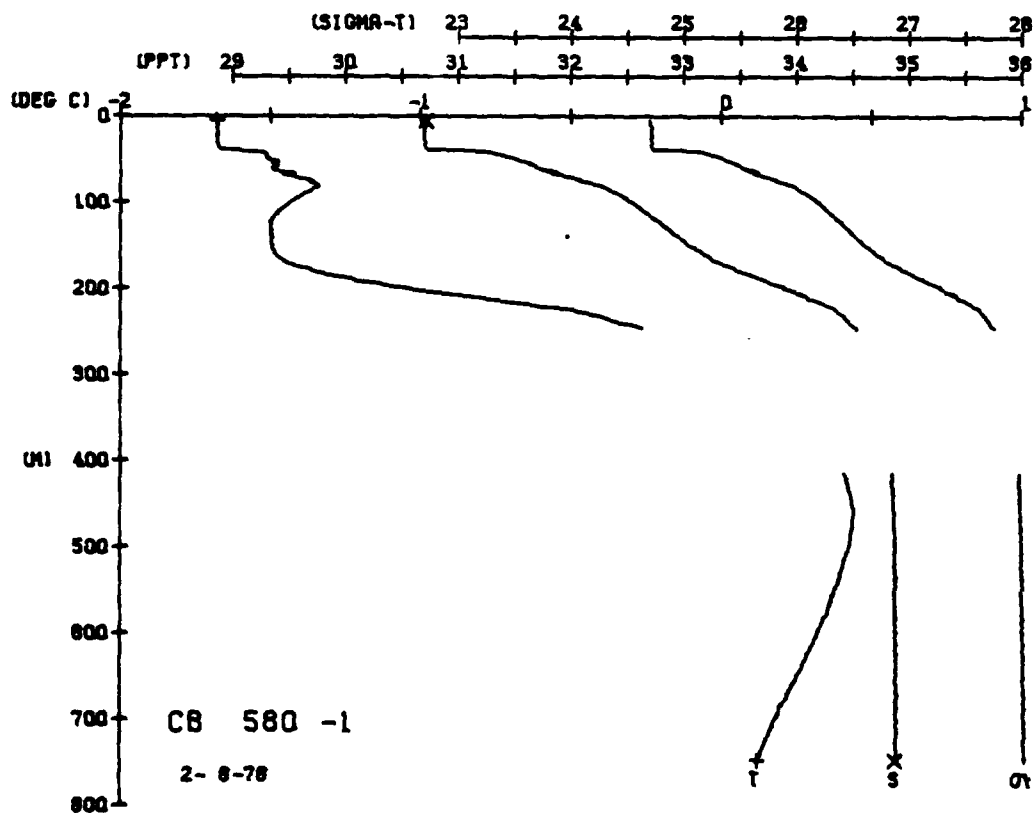
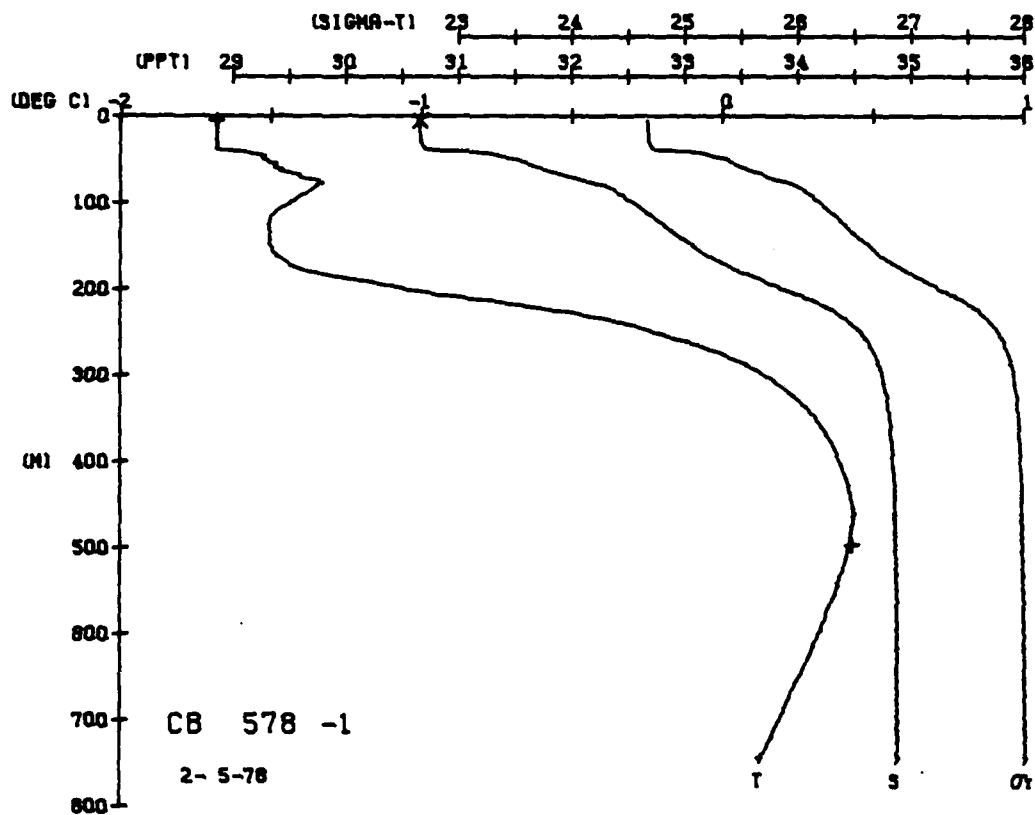




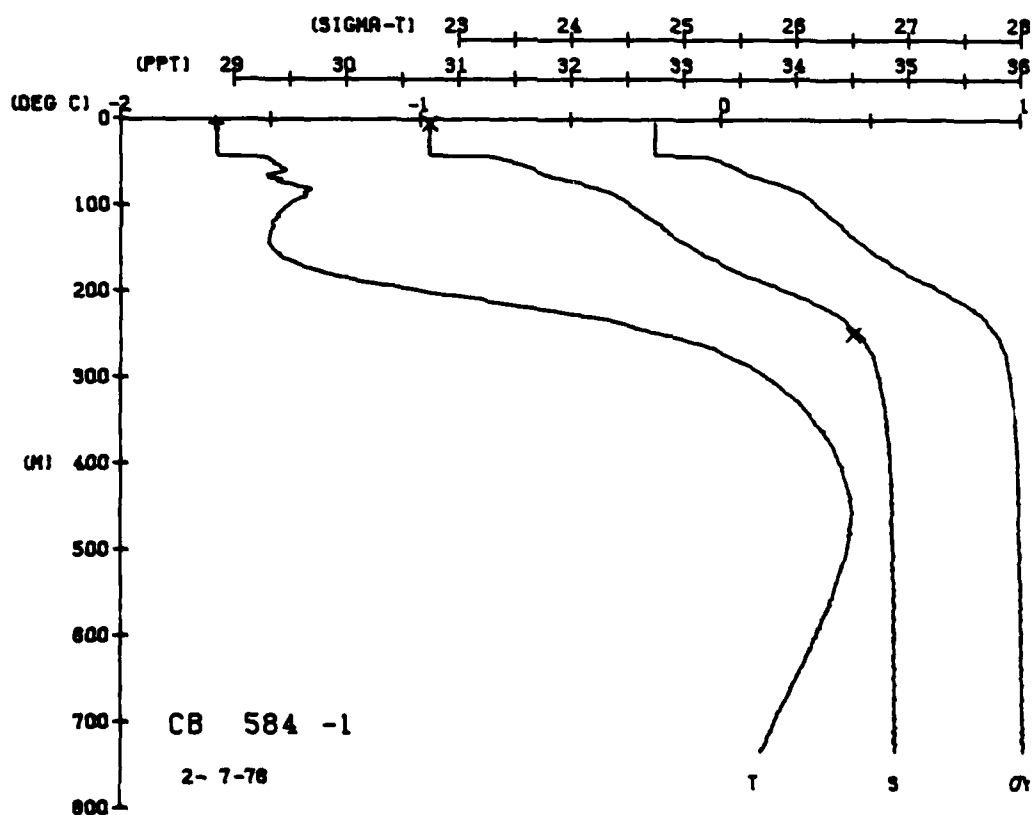
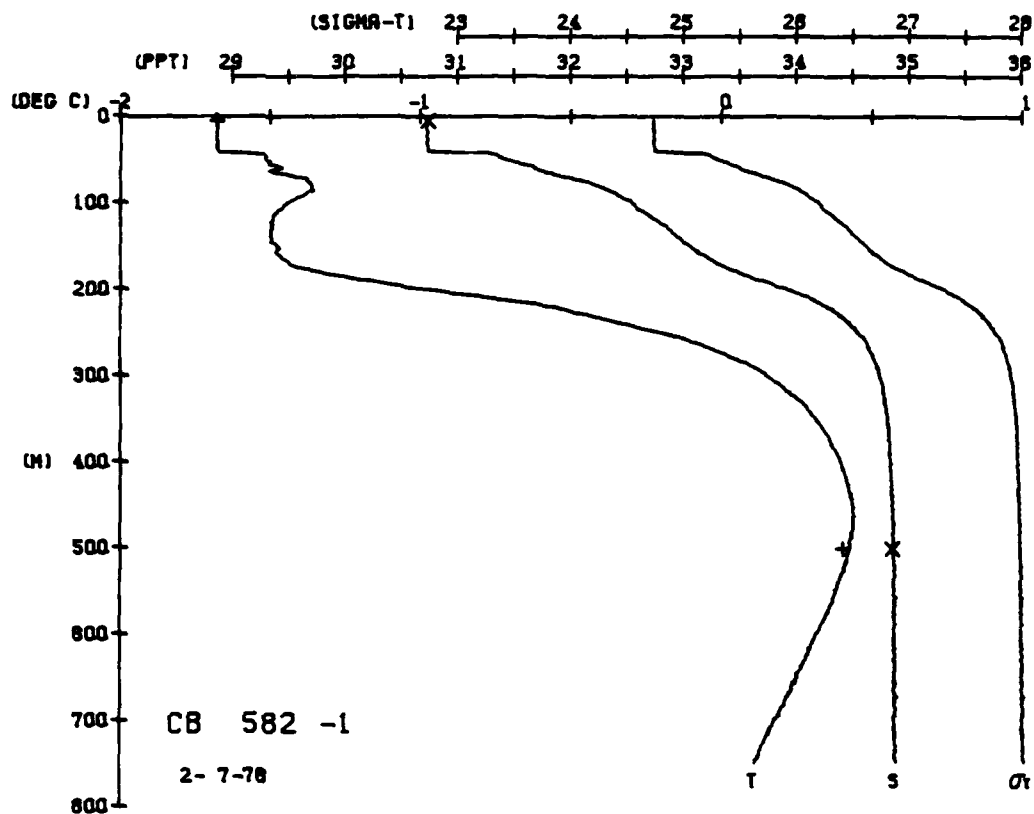






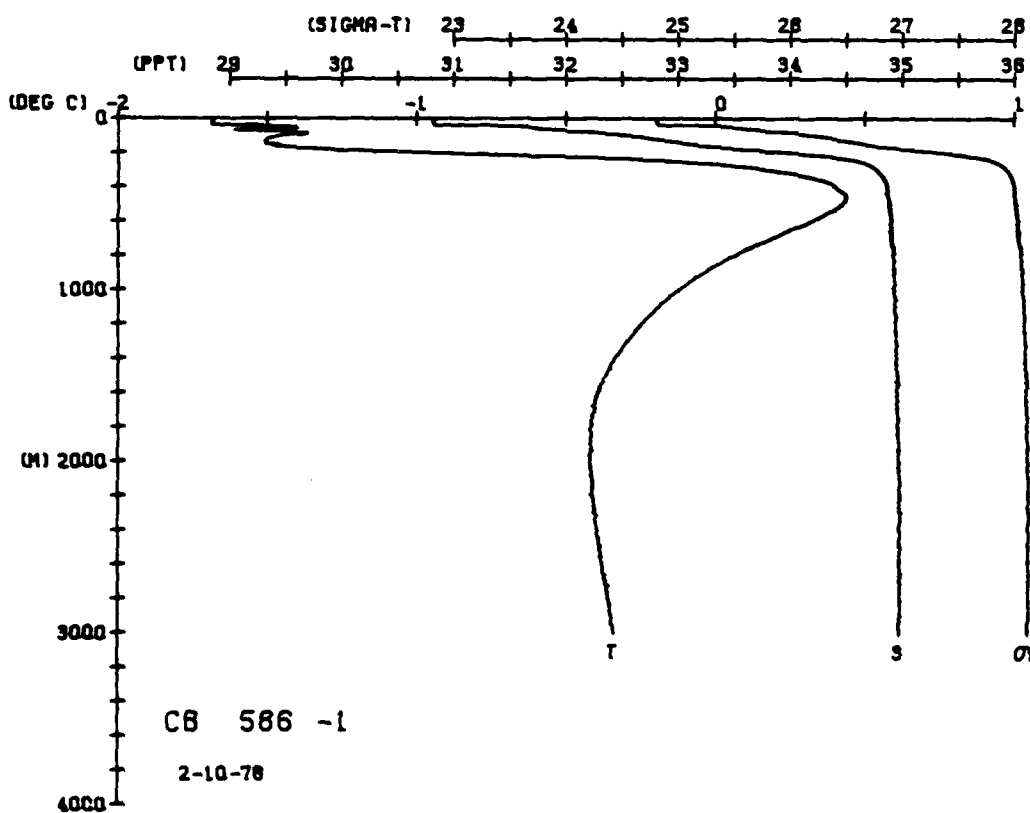
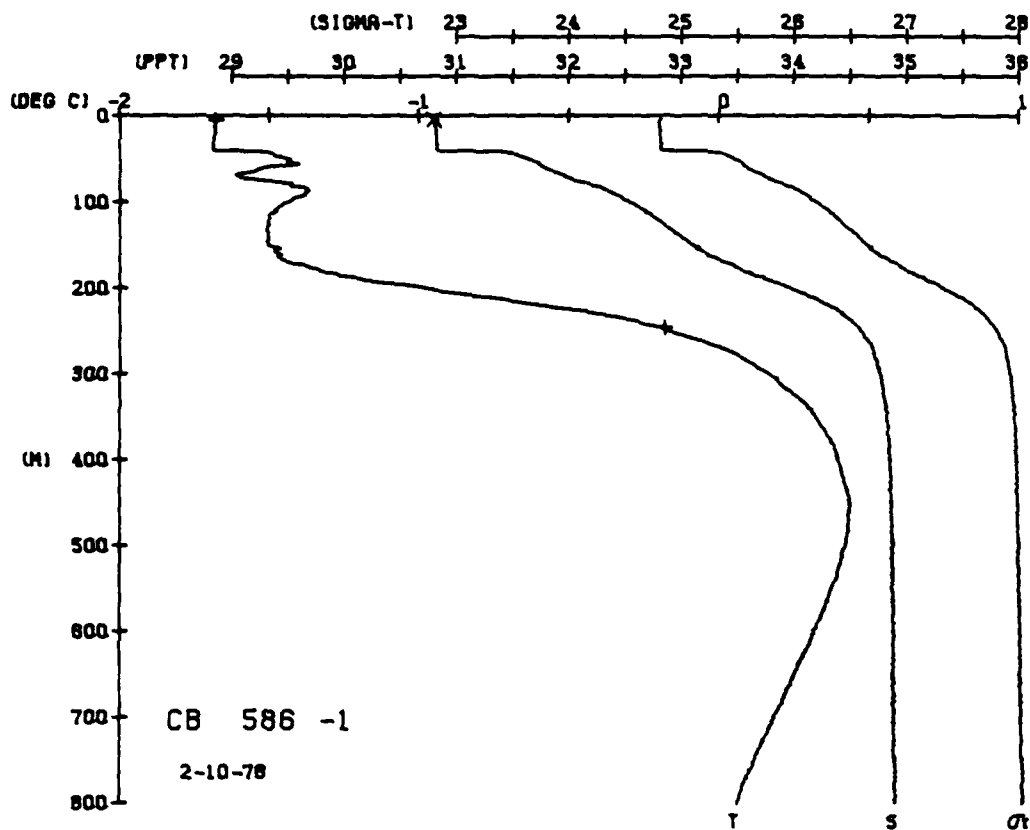




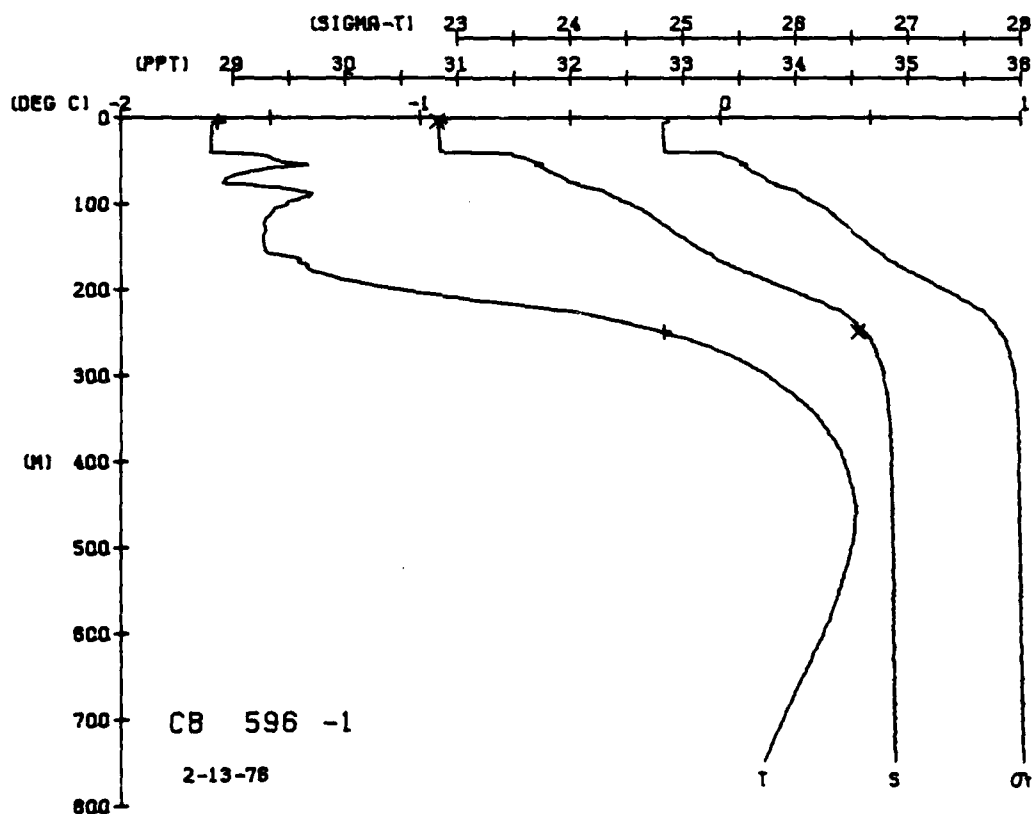
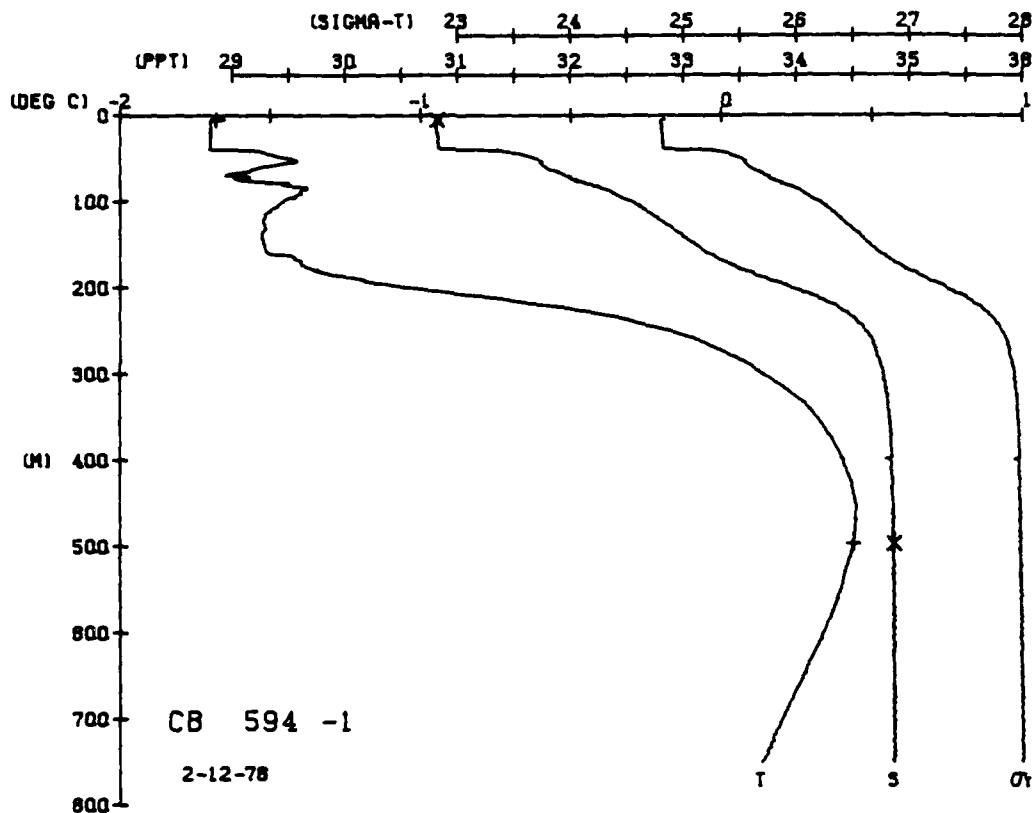


HUT NUM = 1  
HIT NUM = 2

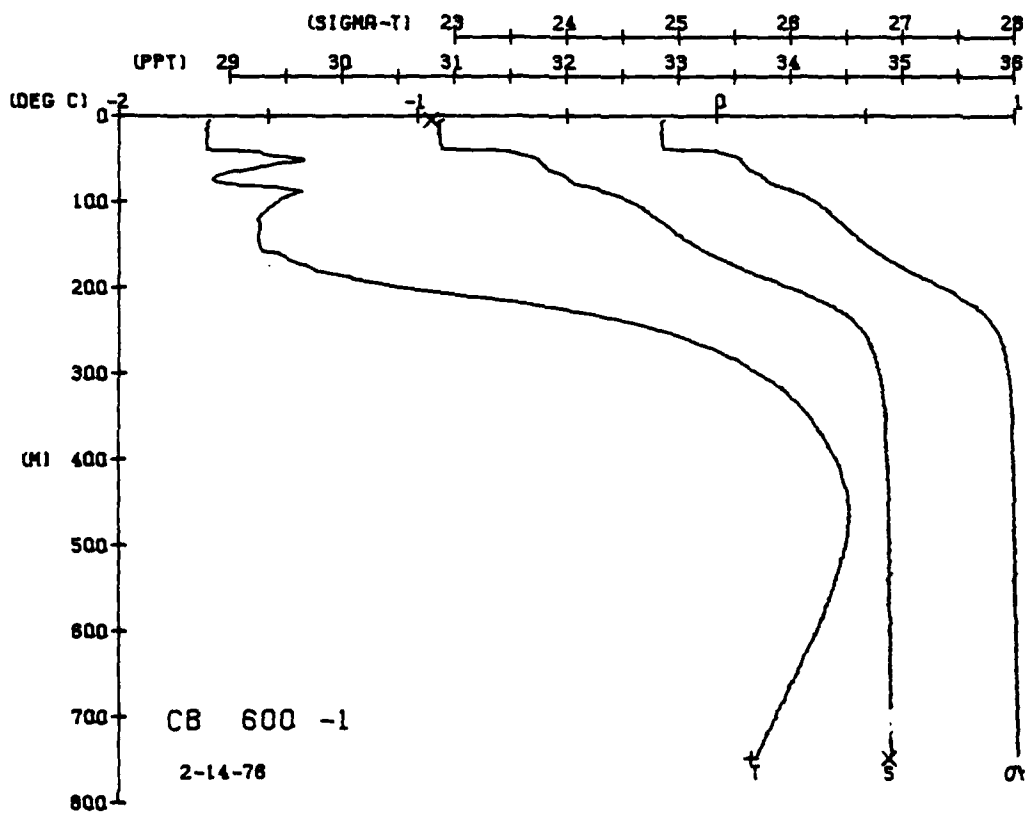
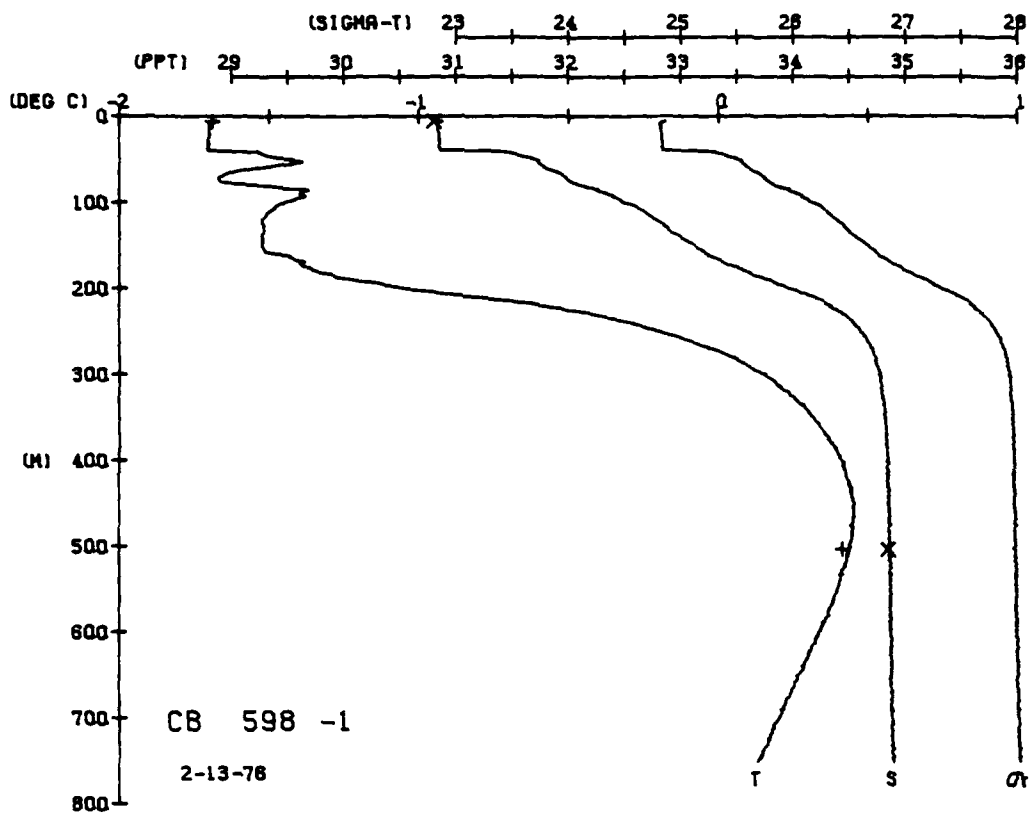




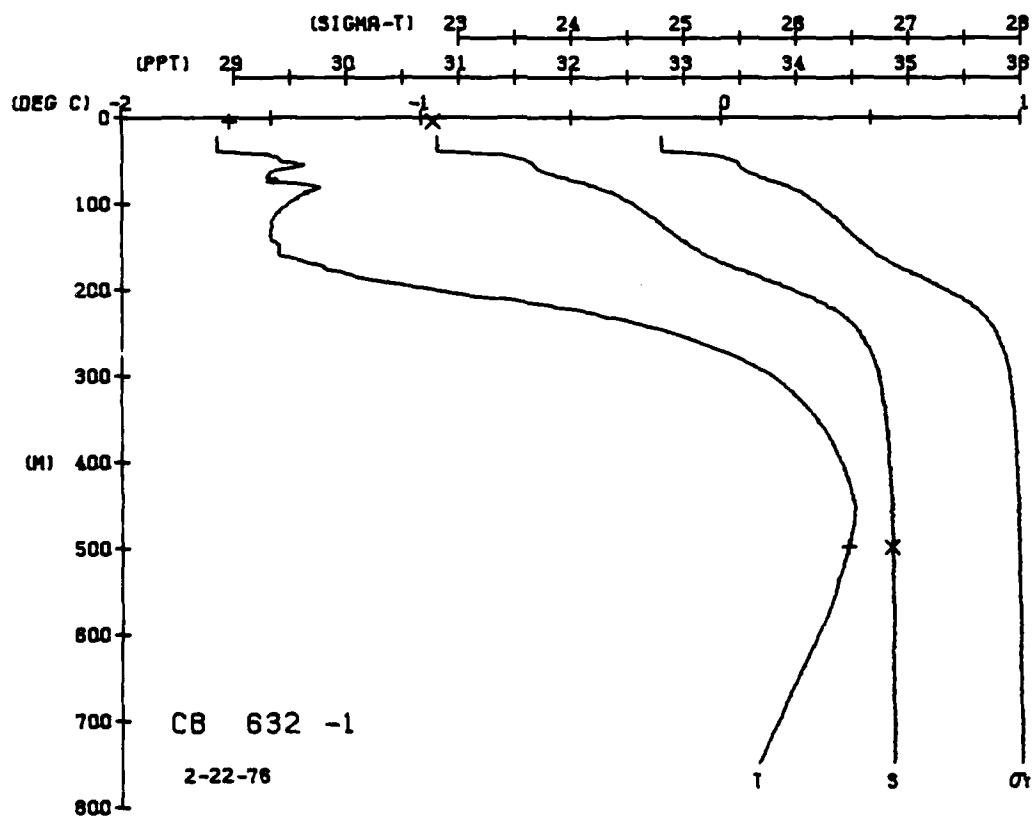
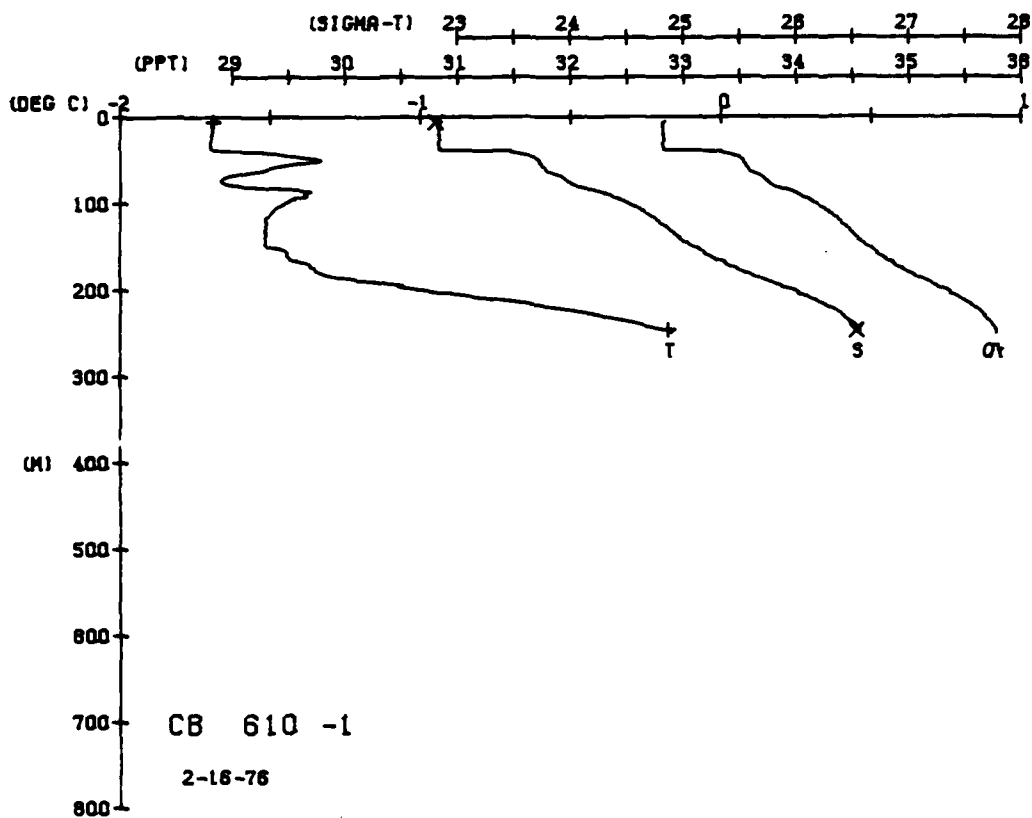






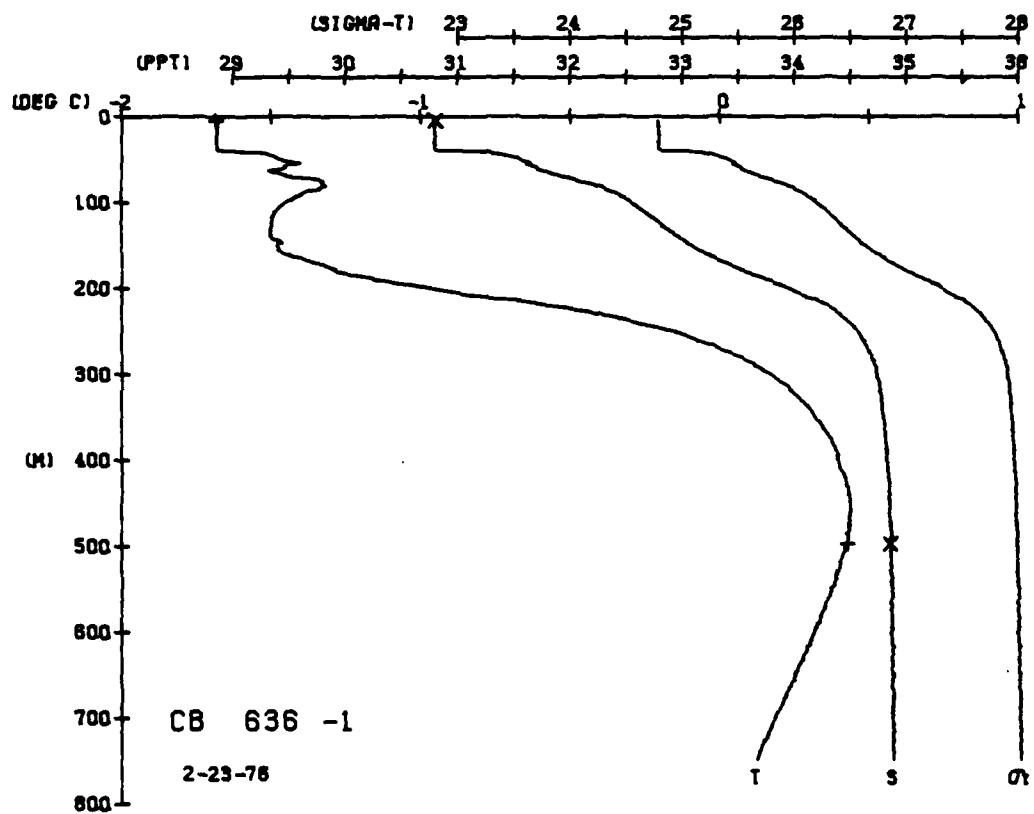
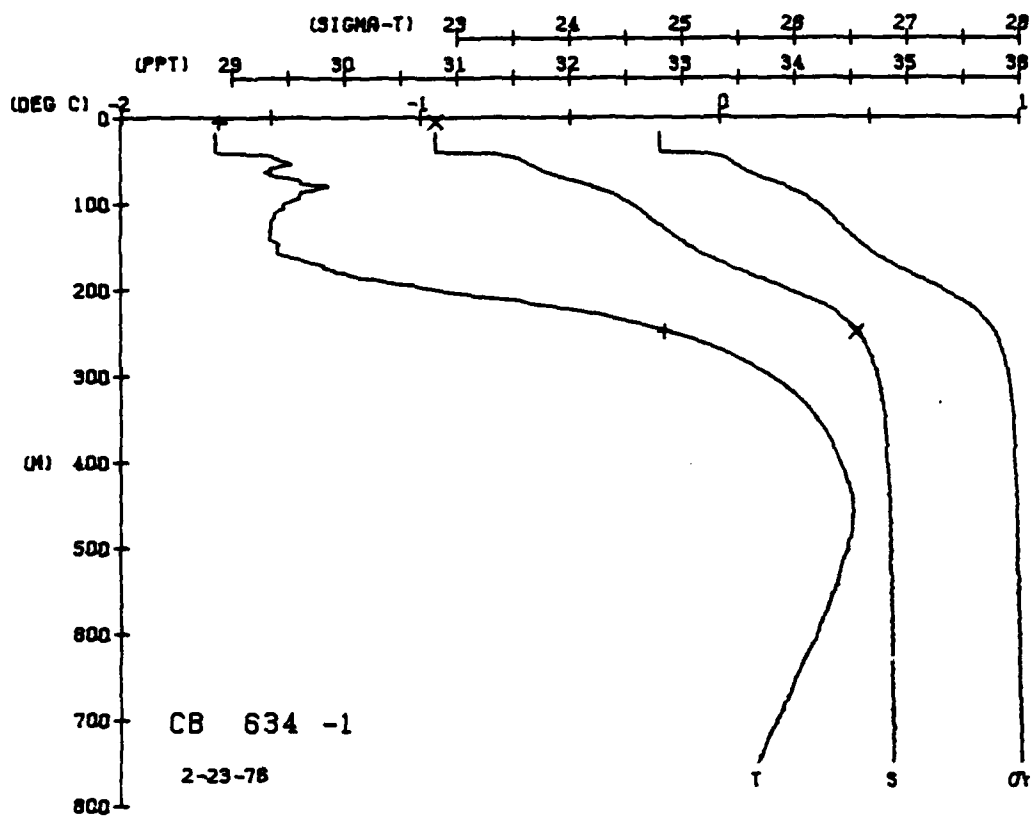










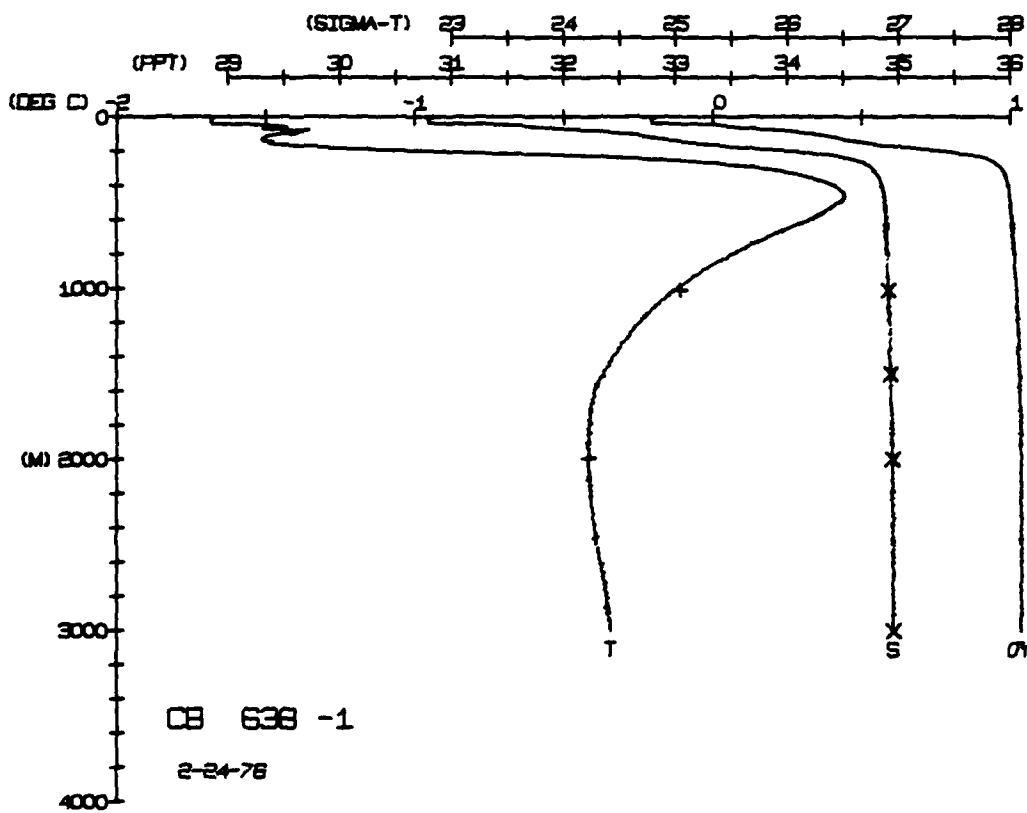
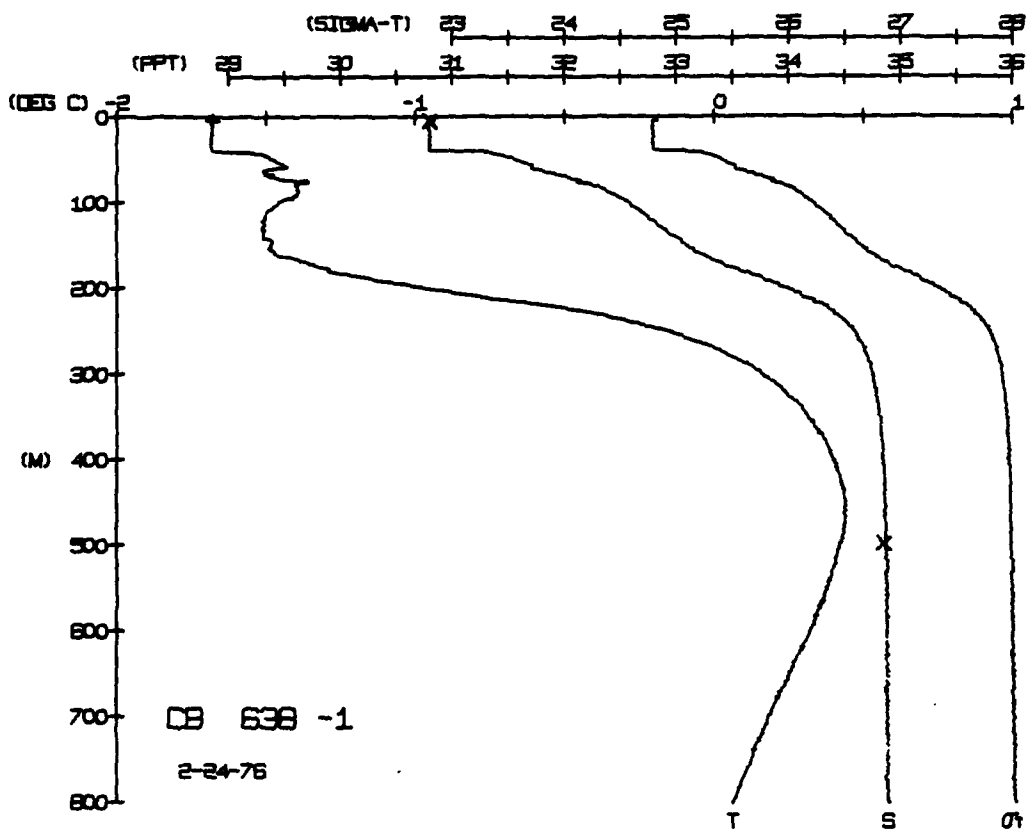


CARHU STATION 638(1) CTD 24/FEB/1976 500 CMF CODE = 1  
 LAT = 72.9148N LUG = 143.2692W LTER = 1  
 AIR TEMP = -37.0 BARUM = 1018.7 WIND = 58.7 SPEED = 73.7

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
10	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
20	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
30	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
40	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
50	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
60	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
70	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
80	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
90	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
100	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
110	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
120	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
130	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
140	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
150	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
160	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
170	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
180	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
190	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
200	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
210	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
220	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
230	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
240	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
250	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
260	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
270	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
280	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
290	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
300	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
310	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
320	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
330	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
340	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
350	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
360	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
370	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
380	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
390	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
400	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
410	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
420	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
430	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
440	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
450	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
460	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
470	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
480	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
490	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111
500	1.0000	1.0000	33.3333	2.2222	1.1111	0.0000	1.1111

DEPTH 4.8  
 TEMP. -1.68  
 SALIN 30.80  
 34.86  
 34.91  
 34.93  
 34.95

NUM 1  
 BUT 2  
 BUT 3  
 BUT 4  
 BUT 5



CARIBBU STATION 640(1) CTD 24/FEB/1976 1800 GMT CODE = 1  
LAT = 72.9150N LNG = 143.720W LTER = 0 LGER = 0  
AIR TEMP = -37.0 BARUM = 1026.8 WIND = 58.9 SPEED = 73.9

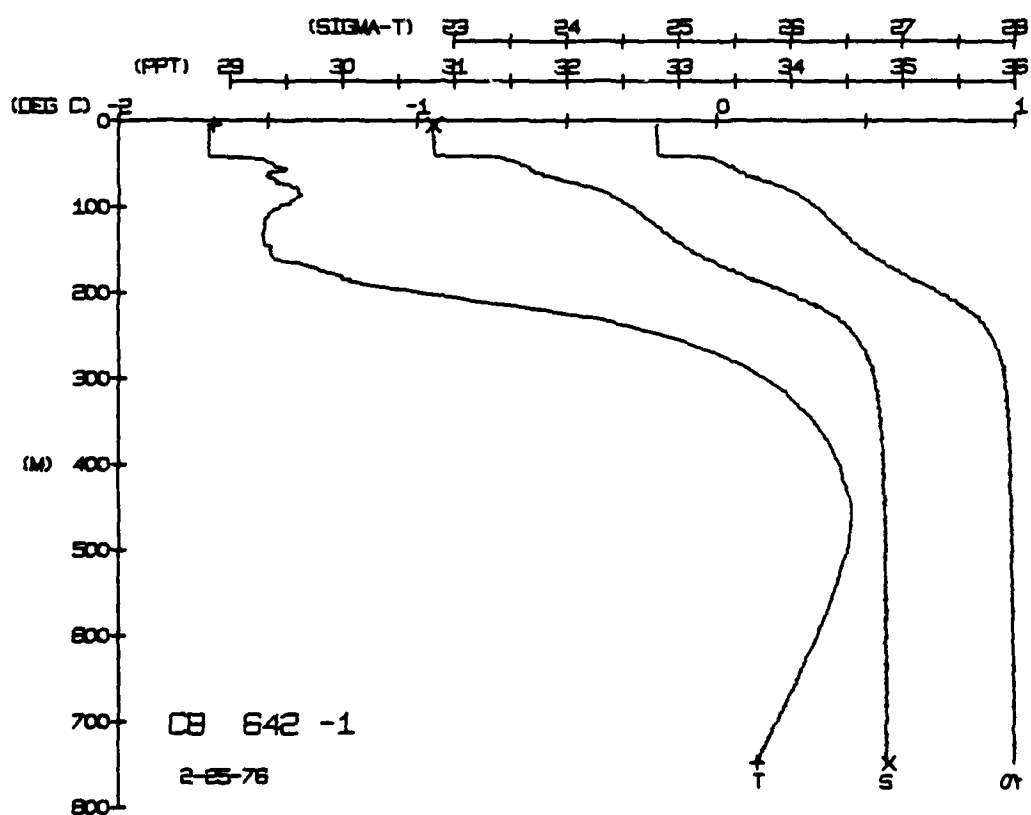
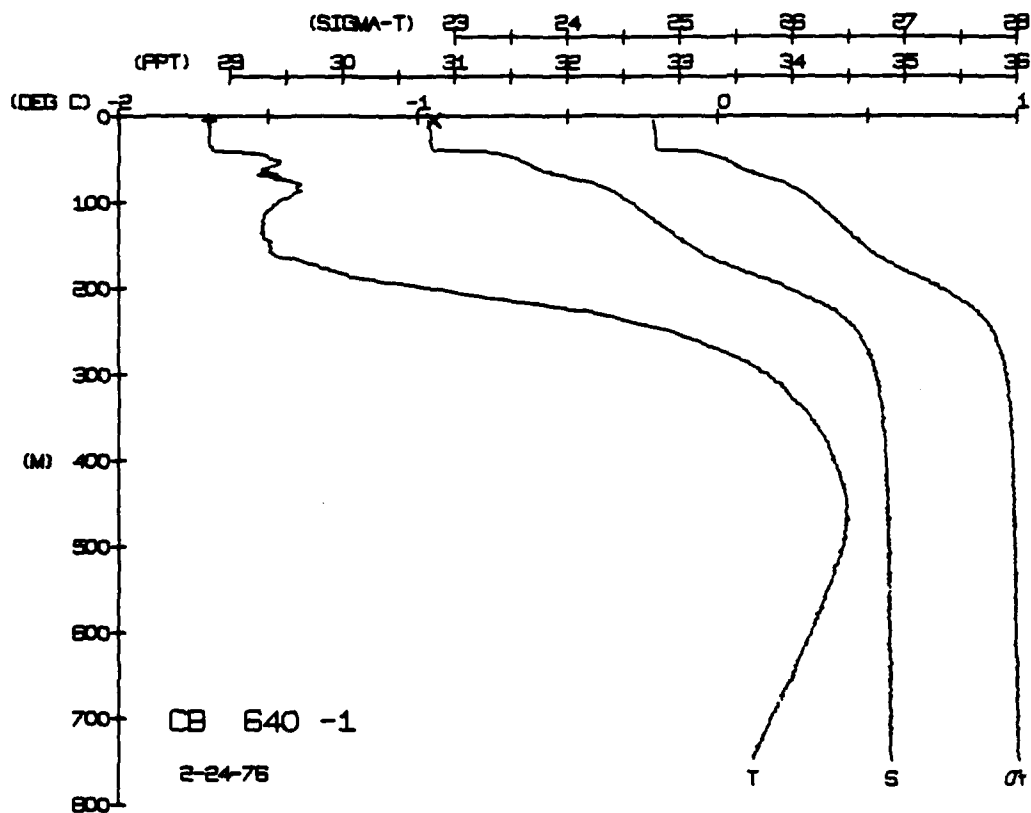
DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.0	69	69	30.0	76	7.6	0.0	45.5
0.5	69	69	30.0	76	7.6	0.0	45.5
1.0	69	69	30.0	76	7.6	0.0	45.5
1.5	69	69	30.0	76	7.6	0.0	45.5
2.0	69	69	30.0	76	7.6	0.0	45.5
2.5	69	69	30.0	76	7.6	0.0	45.5
3.0	69	69	30.0	76	7.6	0.0	45.5
3.5	69	69	30.0	76	7.6	0.0	45.5
4.0	69	69	30.0	76	7.6	0.0	45.5
4.5	69	69	30.0	76	7.6	0.0	45.5
5.0	69	69	30.0	76	7.6	0.0	45.5
5.5	69	69	30.0	76	7.6	0.0	45.5
6.0	69	69	30.0	76	7.6	0.0	45.5
6.5	69	69	30.0	76	7.6	0.0	45.5
7.0	69	69	30.0	76	7.6	0.0	45.5
7.5	69	69	30.0	76	7.6	0.0	45.5
8.0	69	69	30.0	76	7.6	0.0	45.5
8.5	69	69	30.0	76	7.6	0.0	45.5
9.0	69	69	30.0	76	7.6	0.0	45.5
9.5	69	69	30.0	76	7.6	0.0	45.5
10.0	69	69	30.0	76	7.6	0.0	45.5
10.5	69	69	30.0	76	7.6	0.0	45.5
11.0	69	69	30.0	76	7.6	0.0	45.5
11.5	69	69	30.0	76	7.6	0.0	45.5
12.0	69	69	30.0	76	7.6	0.0	45.5
12.5	69	69	30.0	76	7.6	0.0	45.5
13.0	69	69	30.0	76	7.6	0.0	45.5
13.5	69	69	30.0	76	7.6	0.0	45.5
14.0	69	69	30.0	76	7.6	0.0	45.5
14.5	69	69	30.0	76	7.6	0.0	45.5
15.0	69	69	30.0	76	7.6	0.0	45.5
15.5	69	69	30.0	76	7.6	0.0	45.5
16.0	69	69	30.0	76	7.6	0.0	45.5
16.5	69	69	30.0	76	7.6	0.0	45.5
17.0	69	69	30.0	76	7.6	0.0	45.5
17.5	69	69	30.0	76	7.6	0.0	45.5
18.0	69	69	30.0	76	7.6	0.0	45.5
18.5	69	69	30.0	76	7.6	0.0	45.5
19.0	69	69	30.0	76	7.6	0.0	45.5
19.5	69	69	30.0	76	7.6	0.0	45.5
20.0	69	69	30.0	76	7.6	0.0	45.5
20.5	69	69	30.0	76	7.6	0.0	45.5
21.0	69	69	30.0	76	7.6	0.0	45.5
21.5	69	69	30.0	76	7.6	0.0	45.5
22.0	69	69	30.0	76	7.6	0.0	45.5
22.5	69	69	30.0	76	7.6	0.0	45.5
23.0	69	69	30.0	76	7.6	0.0	45.5
23.5	69	69	30.0	76	7.6	0.0	45.5
24.0	69	69	30.0	76	7.6	0.0	45.5
24.5	69	69	30.0	76	7.6	0.0	45.5
25.0	69	69	30.0	76	7.6	0.0	45.5
25.5	69	69	30.0	76	7.6	0.0	45.5
26.0	69	69	30.0	76	7.6	0.0	45.5
26.5	69	69	30.0	76	7.6	0.0	45.5
27.0	69	69	30.0	76	7.6	0.0	45.5
27.5	69	69	30.0	76	7.6	0.0	45.5
28.0	69	69	30.0	76	7.6	0.0	45.5
28.5	69	69	30.0	76	7.6	0.0	45.5
29.0	69	69	30.0	76	7.6	0.0	45.5
29.5	69	69	30.0	76	7.6	0.0	45.5
30.0	69	69	30.0	76	7.6	0.0	45.5

DEPTH 5.0  
TEMP -1.70  
SALIN 30.80  
BOT NUM = 1

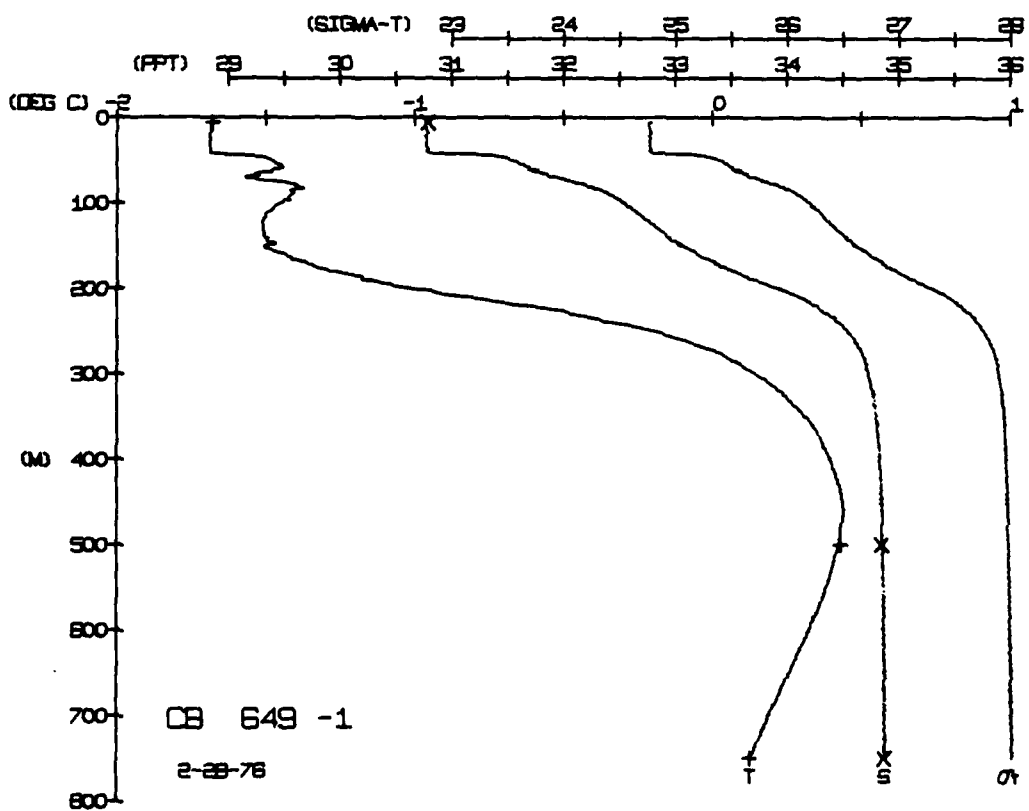
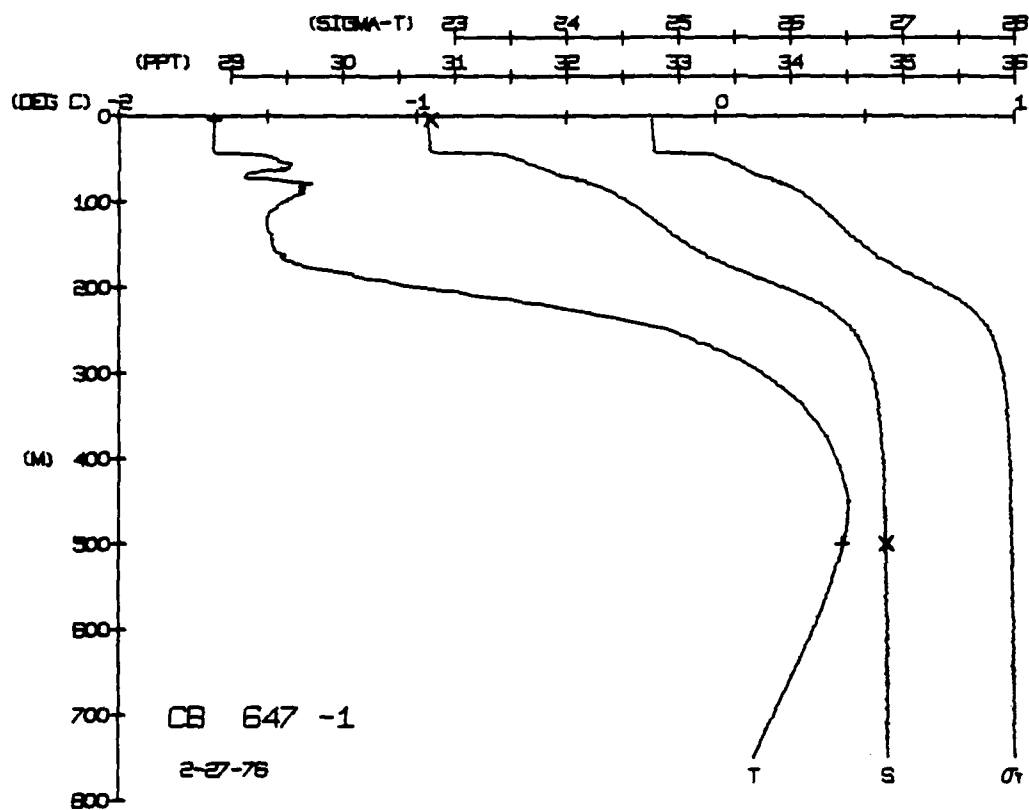
CARIBBU STATION 642(1) CTD 25/FEB/1976 600 GMT CODE = 1  
LAT = 72.9148N LNG = 143.719W LTER = 3 LGER = 3  
AIR TEMP = -35.4 BARUM = 1036.9 WIND = 51.2 SPEED = 49.1

DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.0	69	69	30.0	81	4.4	0.0	45.5
0.5	69	69	30.0	81	4.4	0.0	45.5
1.0	69	69	30.0	81	4.4	0.0	45.5
1.5	69	69	30.0	81	4.4	0.0	45.5
2.0	69	69	30.0	81	4.4	0.0	45.5
2.5	69	69	30.0	81	4.4	0.0	45.5
3.0	69	69	30.0	81	4.4	0.0	45.5
3.5	69	69	30.0	81	4.4	0.0	45.5
4.0	69	69	30.0	81	4.4	0.0	45.5
4.5	69	69	30.0	81	4.4	0.0	45.5
5.0	69	69	30.0	81	4.4	0.0	45.5
5.5	69	69	30.0	81	4.4	0.0	45.5
6.0	69	69	30.0	81	4.4	0.0	45.5
6.5	69	69	30.0	81	4.4	0.0	45.5
7.0	69	69	30.0	81	4.4	0.0	45.5
7.5	69	69	30.0	81	4.4	0.0	45.5
8.0	69	69	30.0	81	4.4	0.0	45.5
8.5	69	69	30.0	81	4.4	0.0	45.5
9.0	69	69	30.0	81	4.4	0.0	45.5
9.5	69	69	30.0	81	4.4	0.0	45.5
10.0	69	69	30.0	81	4.4	0.0	45.5
10.5	69	69	30.0	81	4.4	0.0	45.5
11.0	69	69	30.0	81	4.4	0.0	45.5
11.5	69	69	30.0	81	4.4	0.0	45.5
12.0	69	69	30.0	81	4.4	0.0	45.5
12.5	69	69	30.0	81	4.4	0.0	45.5
13.0	69	69	30.0	81	4.4	0.0	45.5
13.5	69	69	30.0	81	4.4	0.0	45.5
14.0	69	69	30.0	81	4.4	0.0	45.5
14.5	69	69	30.0	81	4.4	0.0	45.5
15.0	69	69	30.0	81	4.4	0.0	45.5
15.5	69	69	30.0	81	4.4	0.0	45.5
16.0	69	69	30.0	81	4.4	0.0	45.5
16.5	69	69	30.0	81	4.4	0.0	45.5
17.0	69	69	30.0	81	4.4	0.0	45.5
17.5	69	69	30.0	81	4.4	0.0	45.5
18.0	69	69	30.0	81	4.4	0.0	45.5
18.5	69	69	30.0	81	4.4	0.0	45.5
19.0	69	69	30.0	81	4.4	0.0	45.5
19.5	69	69	30.0	81	4.4	0.0	45.5
20.0	69	69	30.0	81	4.4	0.0	45.5
20.5	69	69	30.0	81	4.4	0.0	45.5
21.0	69	69	30.0	81	4.4	0.0	45.5
21.5	69	69	30.0	81	4.4	0.0	45.5
22.0	69	69	30.0	81	4.4	0.0	45.5
22.5	69	69	30.0	81	4.4	0.0	45.5
23.0	69	69	30.0	81	4.4	0.0	45.5
23.5	69	69	30.0	81	4.4	0.0	45.5
24.0	69	69	30.0	81	4.4	0.0	45.5
24.5	69	69	30.0	81	4.4	0.0	45.5
25.0	69	69	30.0	81	4.4	0.0	45.5
25.5	69	69	30.0	81	4.4	0.0	45.5
26.0	69	69	30.0	81	4.4	0.0	45.5
26.5	69	69	30.0	81	4.4	0.0	45.5
27.0	69	69	30.0	81	4.4	0.0	45.5
27.5	69	69	30.0	81	4.4	0.0	45.5
28.0	69	69	30.0	81	4.4	0.0	45.5
28.5	69	69	30.0	81	4.4	0.0	45.5
29.0	69	69	30.0	81	4.4	0.0	45.5
29.5	69	69	30.0	81	4.4	0.0	45.5
30.0	69	69	30.0	81	4.4	0.0	45.5

DEPTH 4.8  
TEMP -1.68  
SALIN 30.82  
BOT NUM = 2

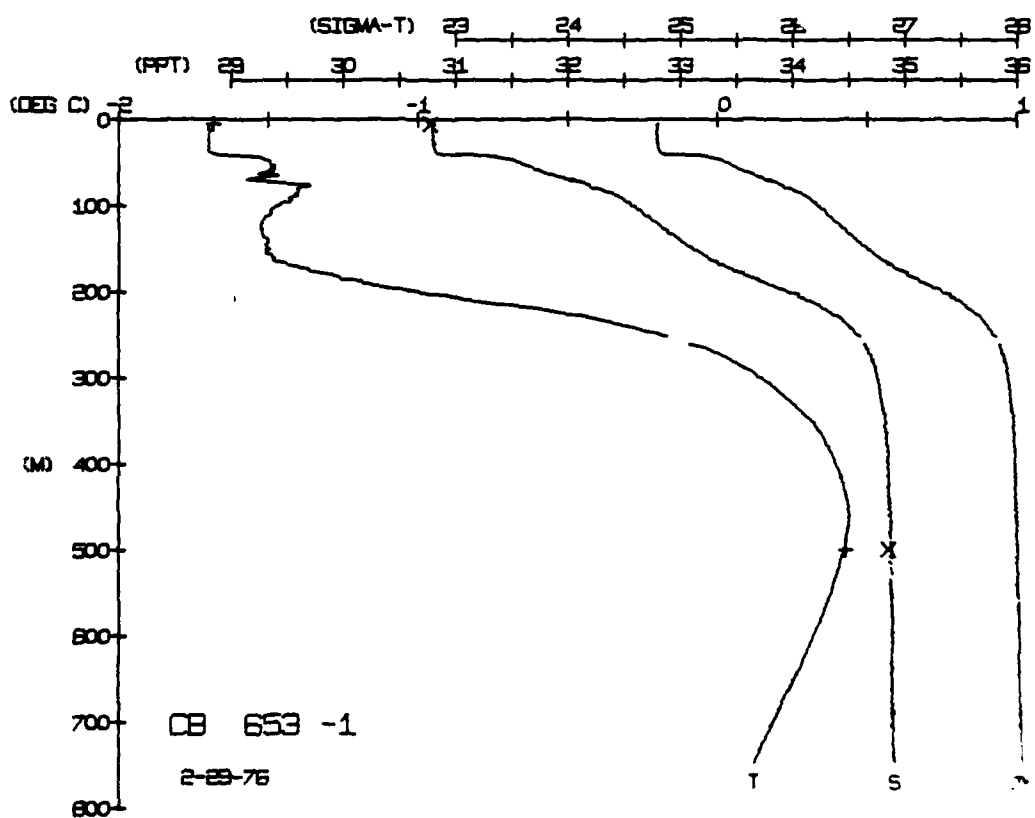
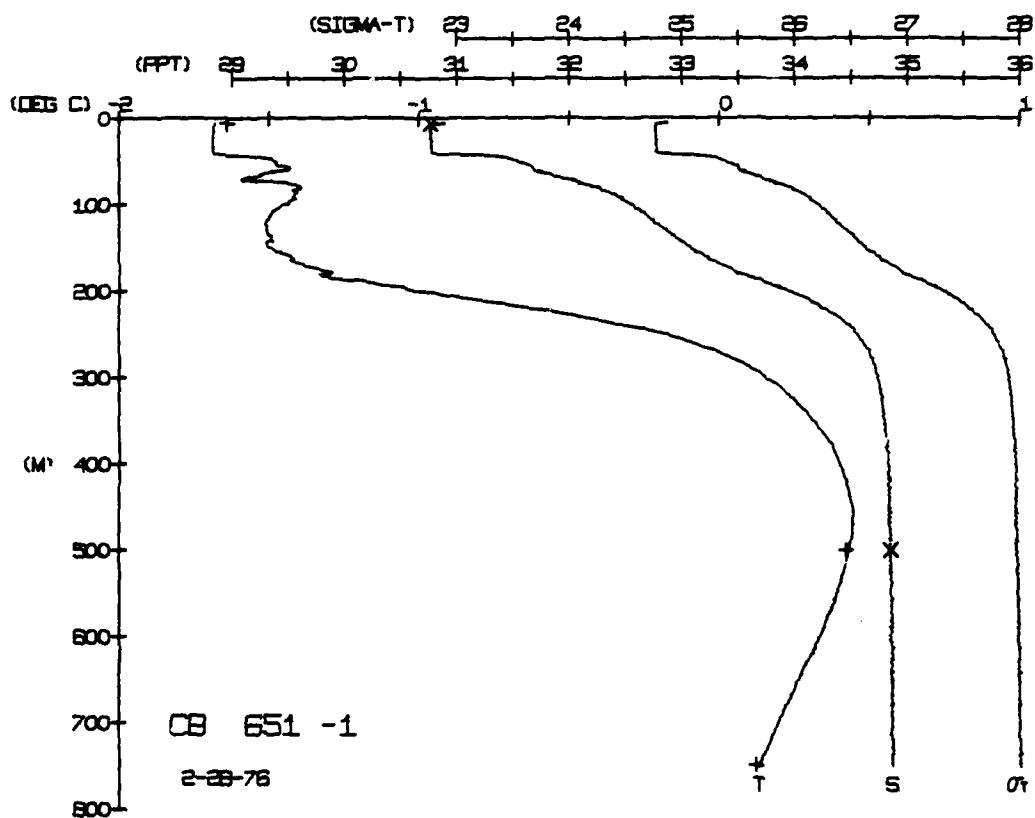












AD-A118 202

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES NY

F/G 8/10

ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)

FEB 80 E BAUER, K HUNKINS, T O MANLEY

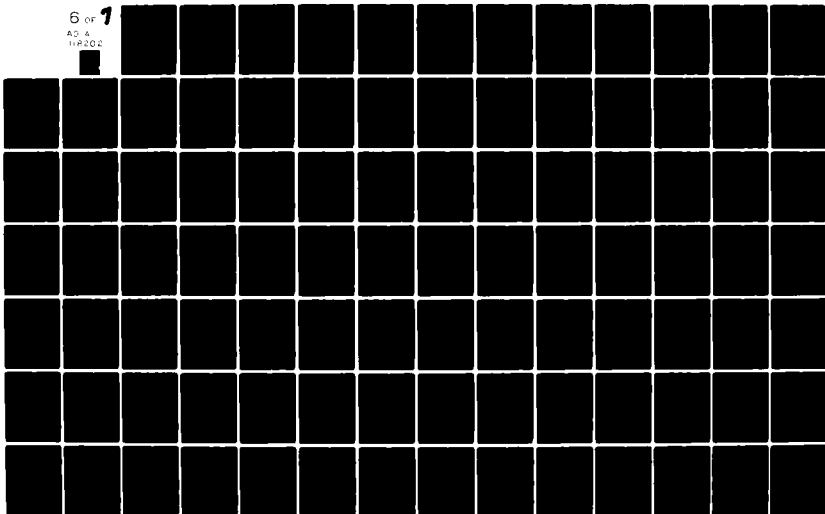
N00014-76-C-0004

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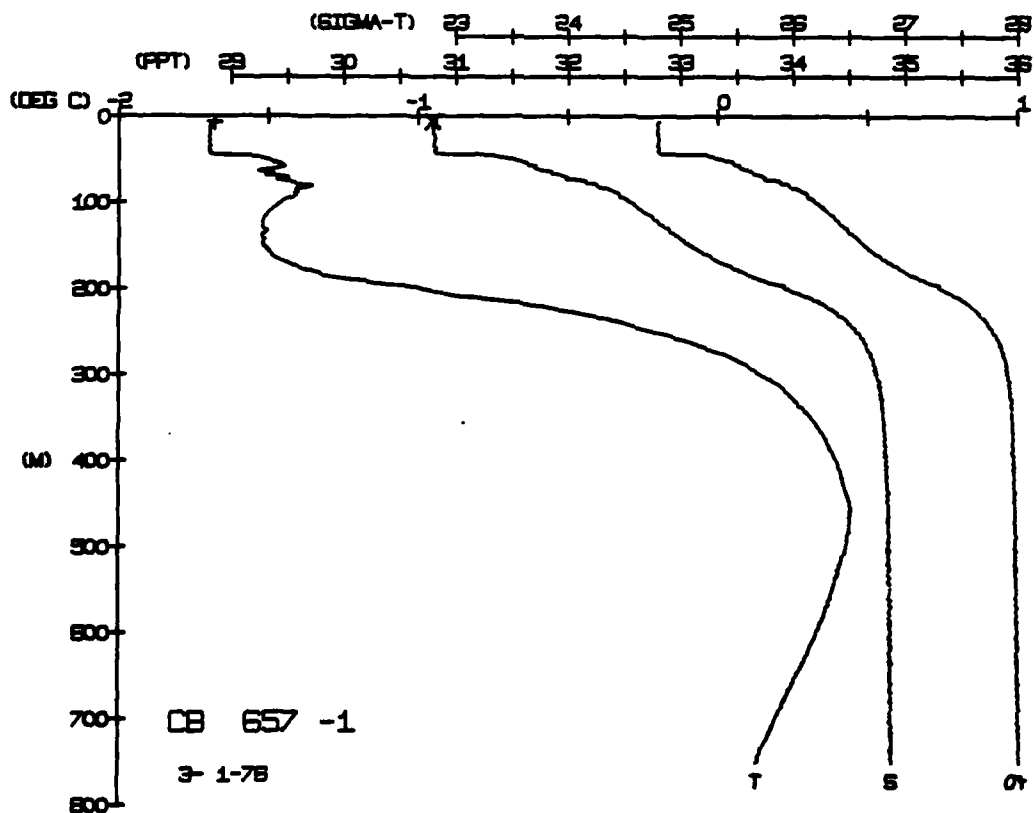
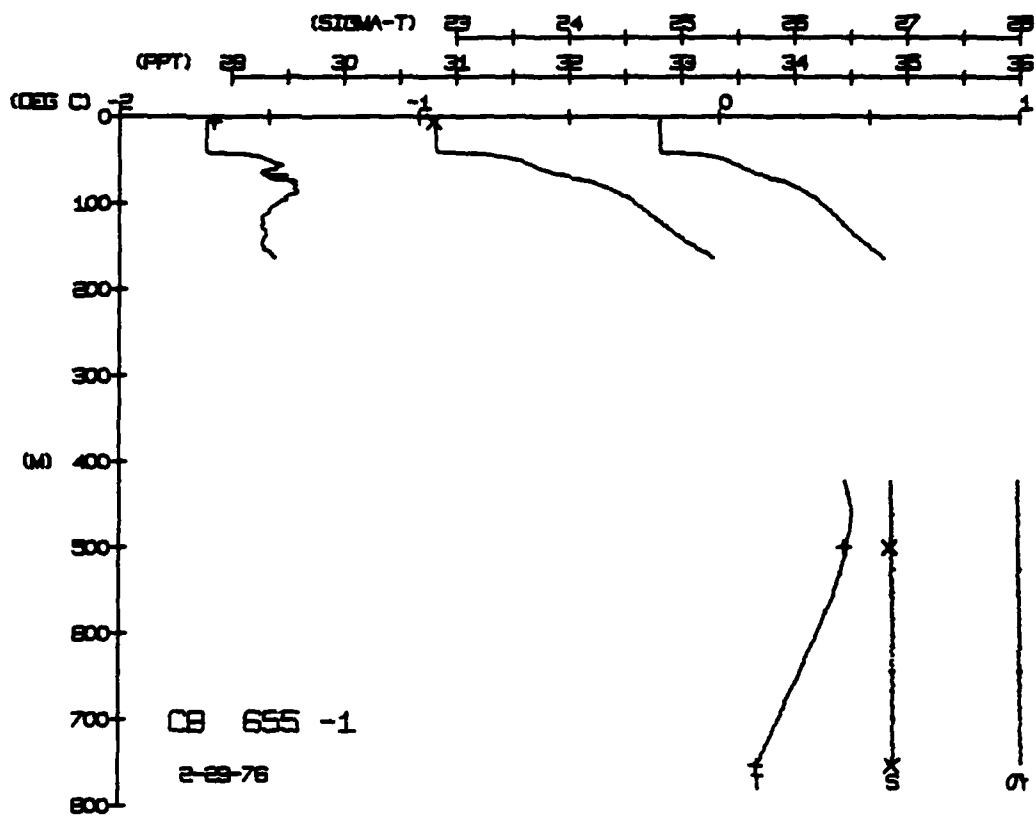


CARLHOB STATION 655(1) CTD 29/FEB/1976 1800 GMT CODE = 1  
LAT = 72.9689N LNG = 143.2944W LTER = 3  
ALIN TMP = -28.1 BARUM = 1033.1 WIND = 150.4 SPEED = 40.8

[illegible][illegible]

DEPTH	TEMP.	SALIN
5.9	-1.68	30.79

DEPTH	TEMP.	SALIN
BUT NUM = 1	-1.09	30.80
BUT NUM = 3	0.42	34.86
BUT NUM = 3	0.13	34.89

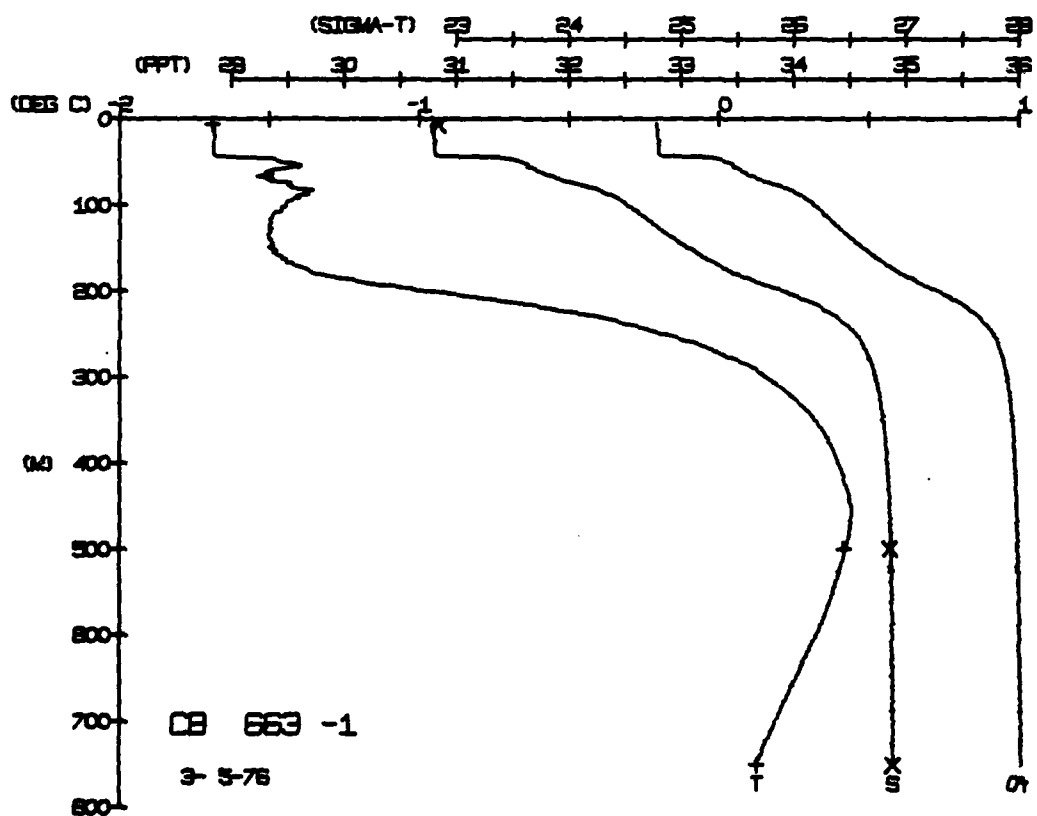
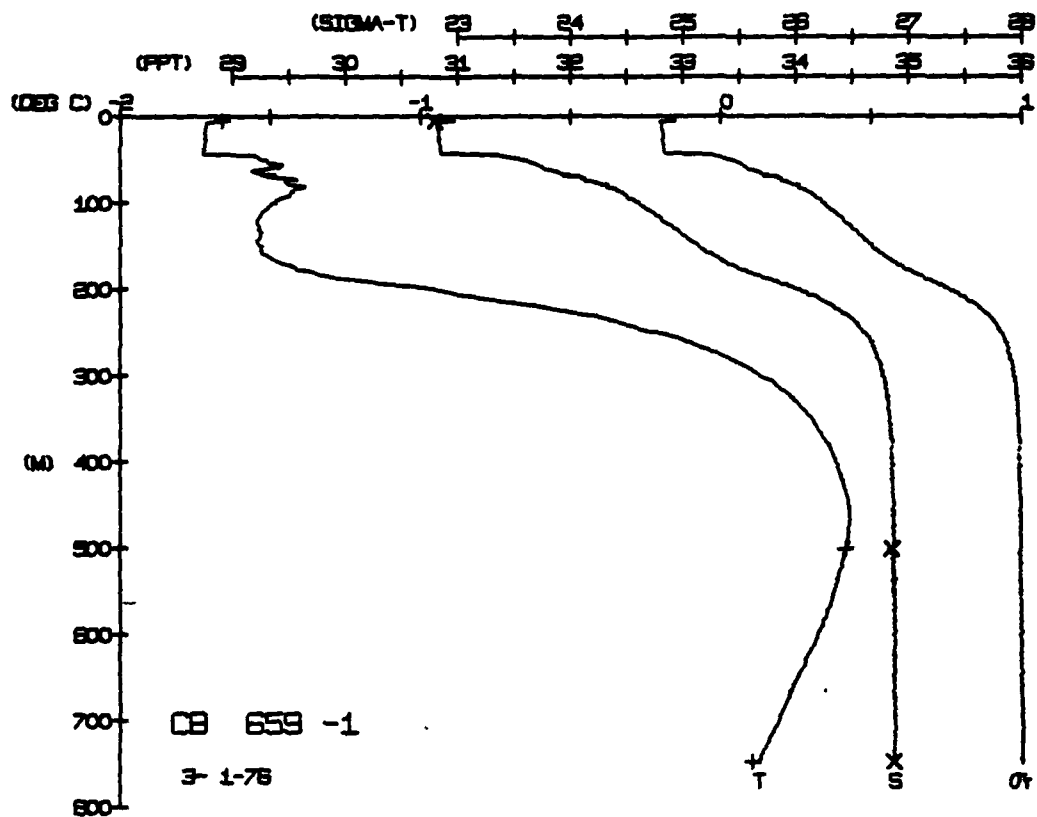


[illegible]

	DEPTH	TEMP.	SALIN.
HOT NUM = 1	6.2	-1.69	30.84
HOT NUM = 2	498.2	0.22	34.86
HOT NUM = 3	749.4	0.33	34.89

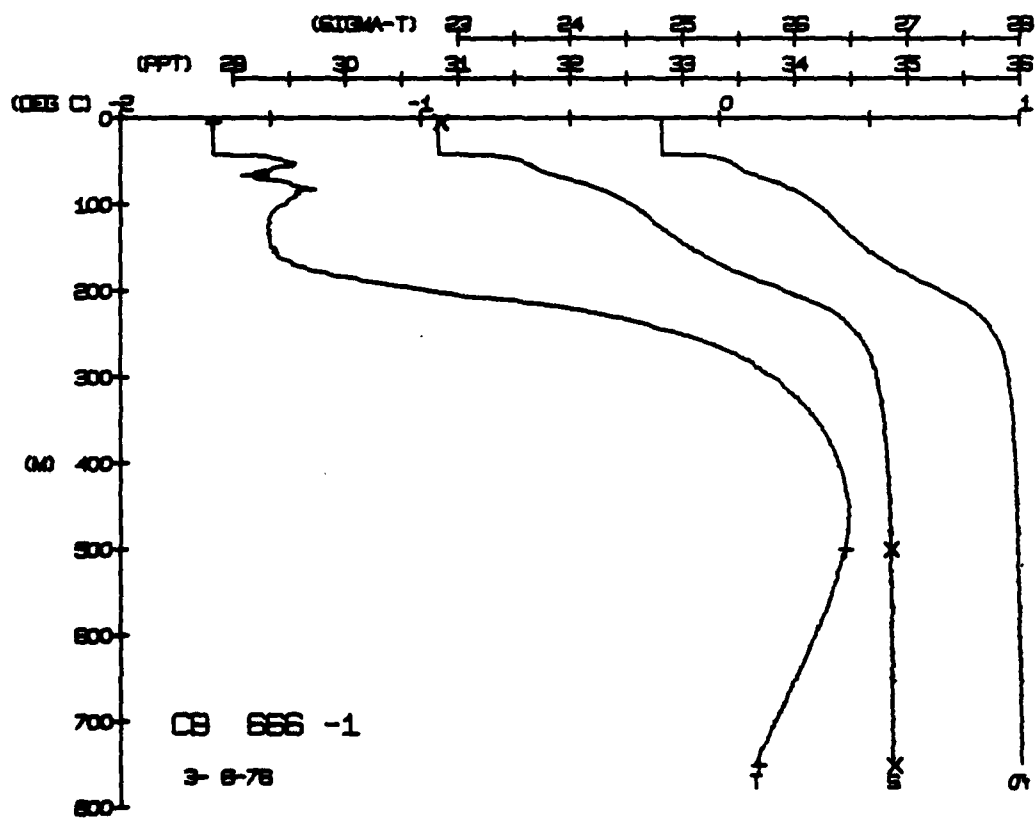
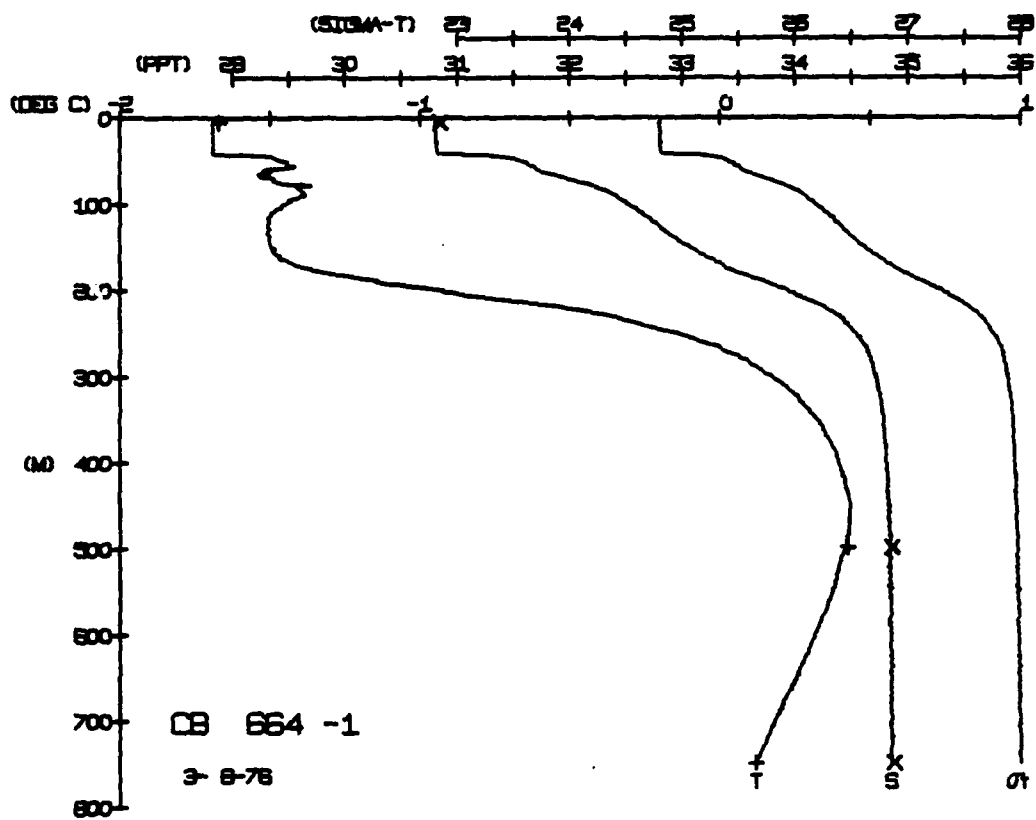
[illegible]

	DEPTH	TEMP.	SALIN.
BT NUM = 1	5.0	-1.66	30.79
BT NUM = 2	500.3	0.42	34.86
BT NUM = 3	746.9	0.1	34.89



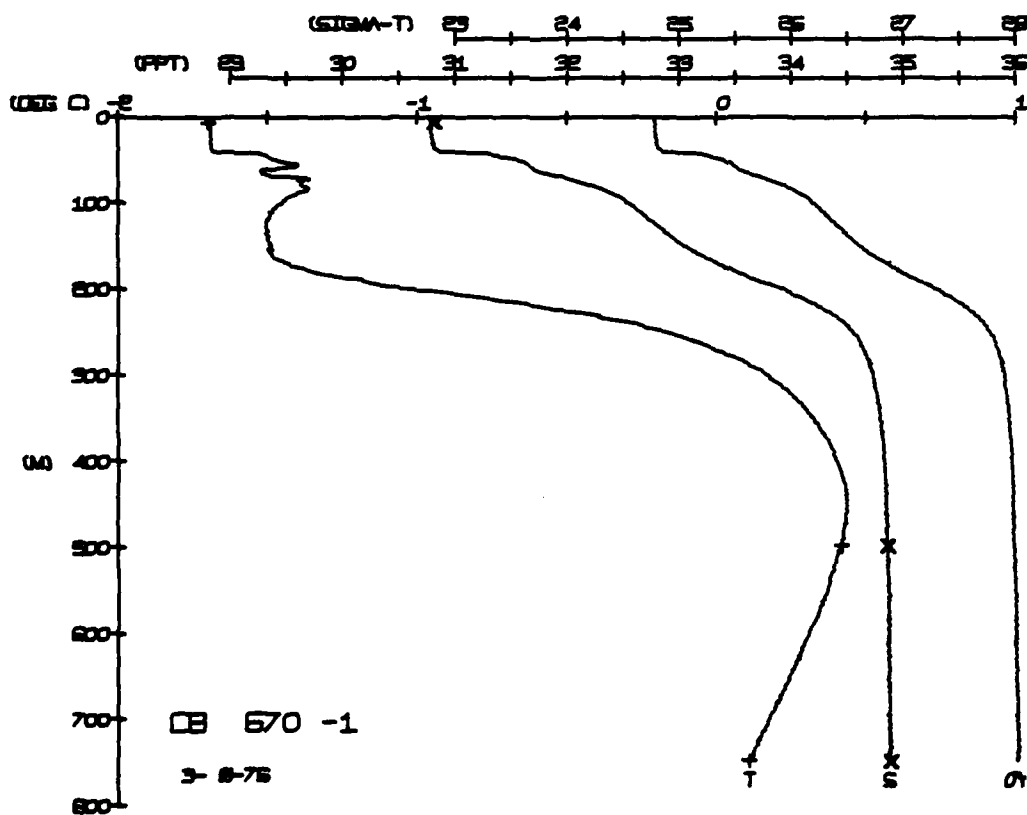
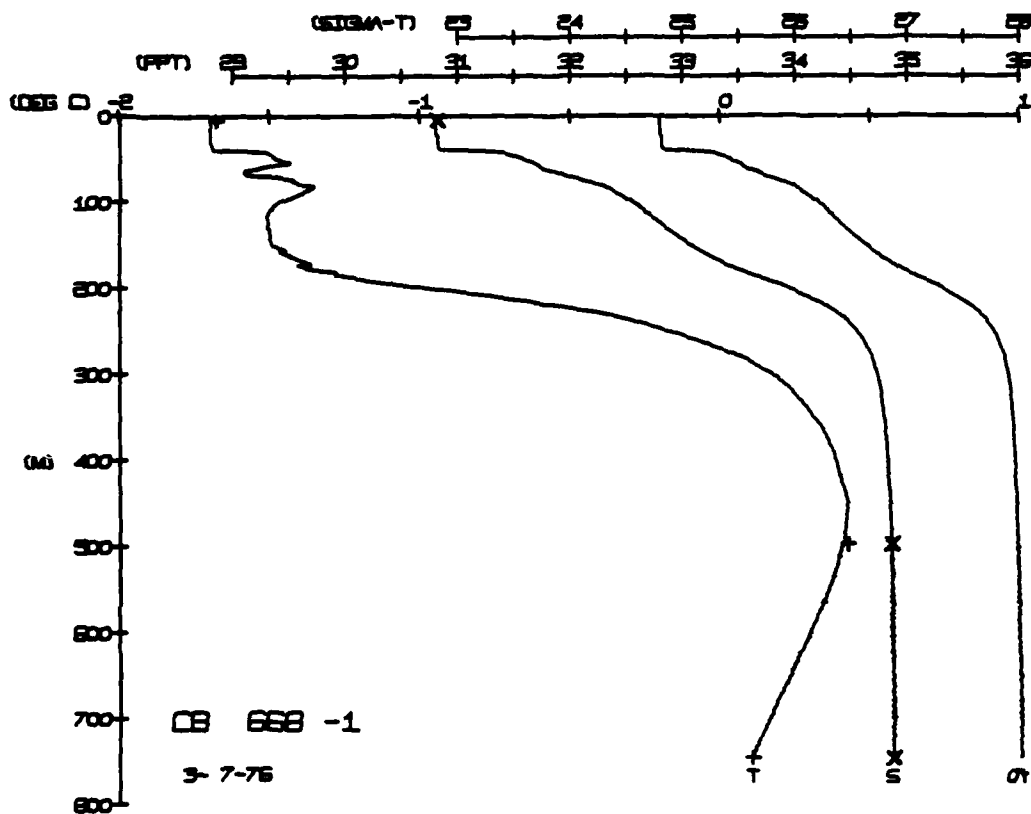
CARIBOU STATION 666(1) CTD 6/MAR/1976 1045 GMT CODE = 1  
LAT = 72.9355N LNG = 143.6509W LTER = 2 LGER = 3  
AIR TEMP = -38.4 HARUM = 1033.8 WIND = 54.5 SPEED = 27.5[illegible]

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	19.2	0.0	35.2	0.0	0.0	0.0	0.0
10	19.1	0.0	35.2	0.0	0.0	0.0	0.0
20	19.0	0.0	35.2	0.0	0.0	0.0	0.0
30	18.9	0.0	35.2	0.0	0.0	0.0	0.0
40	18.8	0.0	35.2	0.0	0.0	0.0	0.0
50	18.7	0.0	35.2	0.0	0.0	0.0	0.0
60	18.6	0.0	35.2	0.0	0.0	0.0	0.0
70	18.5	0.0	35.2	0.0	0.0	0.0	0.0
80	18.4	0.0	35.2	0.0	0.0	0.0	0.0
90	18.3	0.0	35.2	0.0	0.0	0.0	0.0
100	18.2	0.0	35.2	0.0	0.0	0.0	0.0
110	18.1	0.0	35.2	0.0	0.0	0.0	0.0
120	18.0	0.0	35.2	0.0	0.0	0.0	0.0
130	17.9	0.0	35.2	0.0	0.0	0.0	0.0
140	17.8	0.0	35.2	0.0	0.0	0.0	0.0
150	17.7	0.0	35.2	0.0	0.0	0.0	0.0
160	17.6	0.0	35.2	0.0	0.0	0.0	0.0
170	17.5	0.0	35.2	0.0	0.0	0.0	0.0
180	17.4	0.0	35.2	0.0	0.0	0.0	0.0
190	17.3	0.0	35.2	0.0	0.0	0.0	0.0
200	17.2	0.0	35.2	0.0	0.0	0.0	0.0
210	17.1	0.0	35.2	0.0	0.0	0.0	0.0
220	17.0	0.0	35.2	0.0	0.0	0.0	0.0
230	16.9	0.0	35.2	0.0	0.0	0.0	0.0
240	16.8	0.0	35.2	0.0	0.0	0.0	0.0
250	16.7	0.0	35.2	0.0	0.0	0.0	0.0
260	16.6	0.0	35.2	0.0	0.0	0.0	0.0
270	16.5	0.0	35.2	0.0	0.0	0.0	0.0
280	16.4	0.0	35.2	0.0	0.0	0.0	0.0
290	16.3	0.0	35.2	0.0	0.0	0.0	0.0
300	16.2	0.0	35.2	0.0	0.0	0.0	0.0
310	16.1	0.0	35.2	0.0	0.0	0.0	0.0
320	16.0	0.0	35.2	0.0	0.0	0.0	0.0
330	15.9	0.0	35.2	0.0	0.0	0.0	0.0
340	15.8	0.0	35.2	0.0	0.0	0.0	0.0
350	15.7	0.0	35.2	0.0	0.0	0.0	0.0
360	15.6	0.0	35.2	0.0	0.0	0.0	0.0
370	15.5	0.0	35.2	0.0	0.0	0.0	0.0
380	15.4	0.0	35.2	0.0	0.0	0.0	0.0
390	15.3	0.0	35.2	0.0	0.0	0.0	0.0
400	15.2	0.0	35.2	0.0	0.0	0.0	0.0
410	15.1	0.0	35.2	0.0	0.0	0.0	0.0
420	15.0	0.0	35.2	0.0	0.0	0.0	0.0
430	14.9	0.0	35.2	0.0	0.0	0.0	0.0
440	14.8	0.0	35.2	0.0	0.0	0.0	0.0
450	14.7	0.0	35.2	0.0	0.0	0.0	0.0
460	14.6	0.0	35.2	0.0	0.0	0.0	0.0
470	14.5	0.0	35.2	0.0	0.0	0.0	0.0
480	14.4	0.0	35.2	0.0	0.0	0.0	0.0
490	14.3	0.0	35.2	0.0	0.		



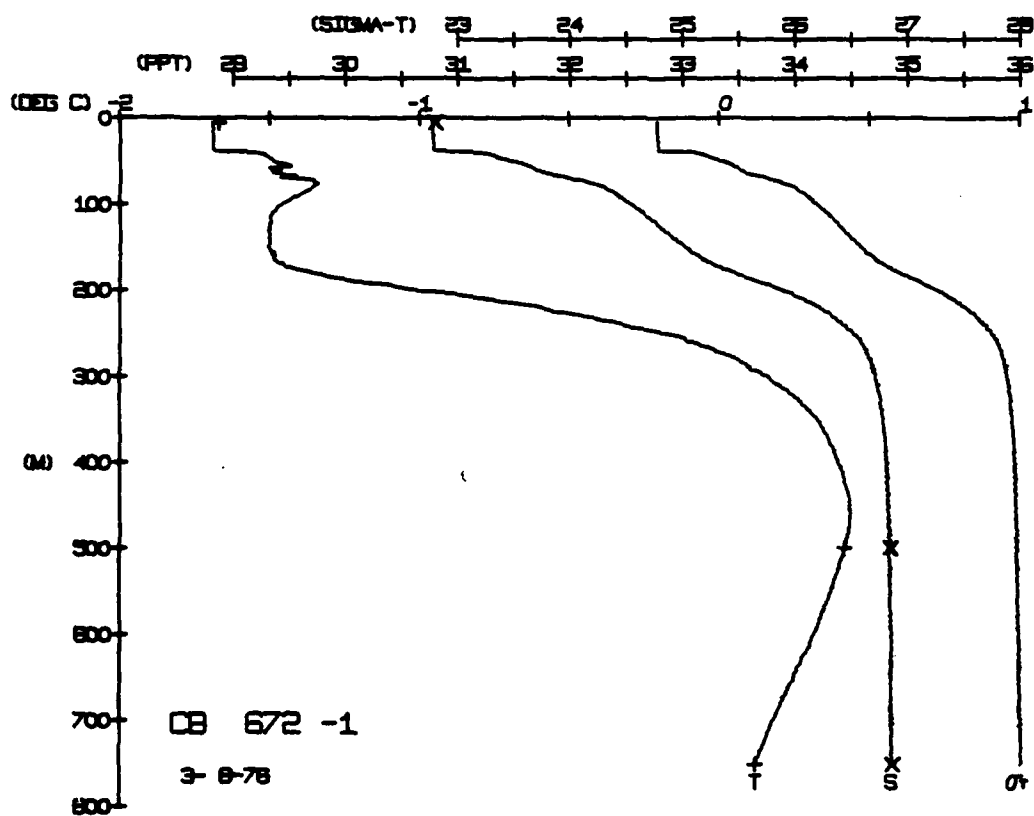






DEPTH	TEMP	PTMP	SALIN	SIG T	SPVUL	DYNH	SOUND
0.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
1.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
1.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
2.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
2.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
3.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
3.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
4.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
4.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
5.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
5.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
6.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
6.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
7.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
7.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
8.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
8.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
9.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
9.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
10.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
10.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
11.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
11.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
12.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
12.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
13.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
13.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
14.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
14.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
15.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
15.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
16.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
16.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
17.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
17.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
18.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
18.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
19.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
19.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
20.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
20.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
21.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
21.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
22.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
22.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
23.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
23.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
24.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
24.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
25.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
25.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
26.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
26.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
27.0	19.5	0.0	33.3	0.0	0.0	0.0	0.0
27.5	19.5	0.0	33.3	0.0	0.0	0.0	0.0
28.0	19.5	0					

DEPTH	TEMP.	SALIN
5.4	-1.67	30.81
498.6	0.42	34.86
749.2	0.13	34.89

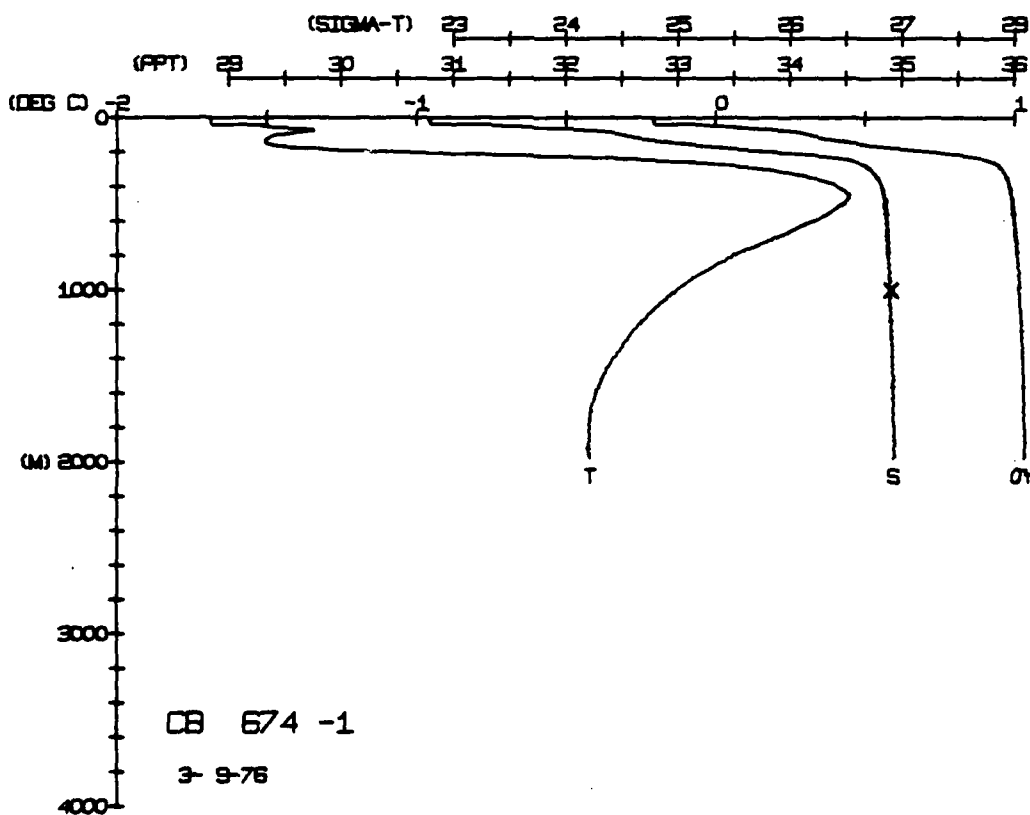
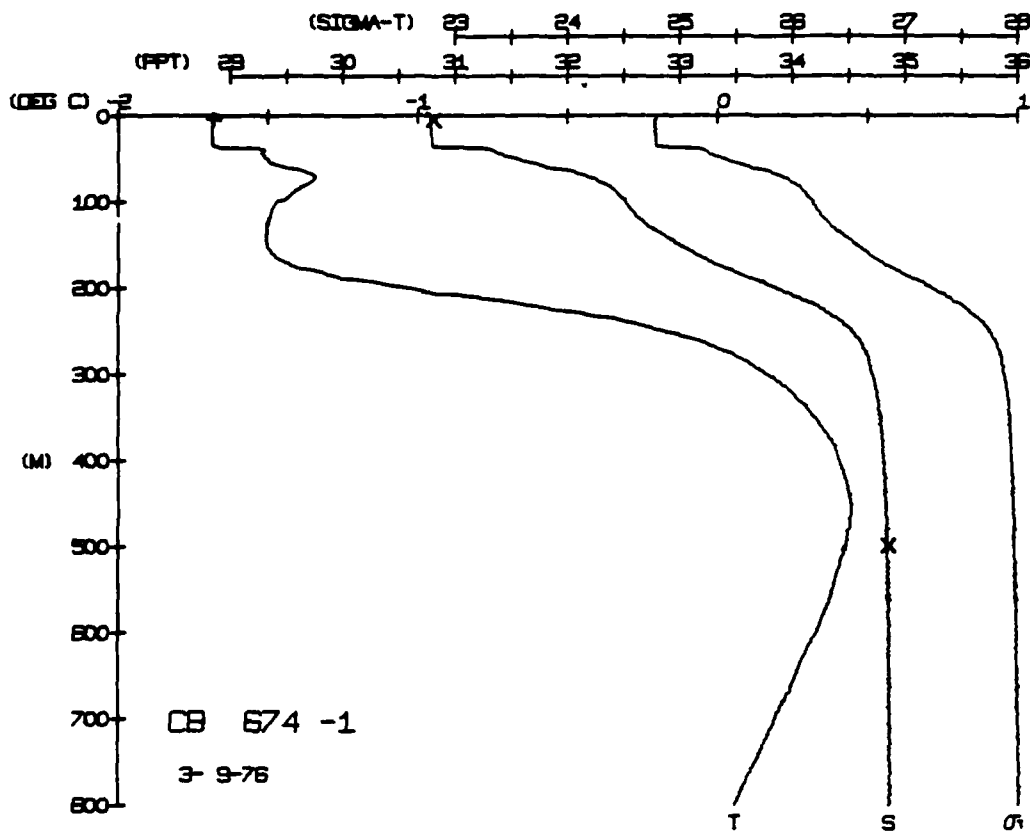


LARIMOU STATION 6/411 (10)  
 LAT = 72.960N LONG = 144.284W  
 AIR TEMP = -35.8 BATHY = 1027.5 WIND = 69.6 SPEED = 41.1  
 500 GMT CORR. = 1  
 0. LGEM = 0.

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	LYNHT	SOUND
0.4	1.69	1.69	30.40	28.04	7.4	19	1463.26
5.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
10.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
15.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
20.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
25.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
30.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
35.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
40.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
45.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
50.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
55.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
60.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
65.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
70.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
75.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
80.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
85.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
90.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
95.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
100.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
105.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
110.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
115.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
120.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
125.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
130.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
135.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
140.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
145.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
150.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
155.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
160.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
165.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
170.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
175.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
180.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
185.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
190.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
195.0	1.69	1.69	30.40	28.04	7.4	19	1463.26
200.0	1.69	1.69	30.40	28.04	7.4	19	1463.26

DEPTH	TEMP.	SALIN
4.3	-1.68	30.81
497.8		34.87
997.9		34.91
1498.6		
1999.0		
3001.7		

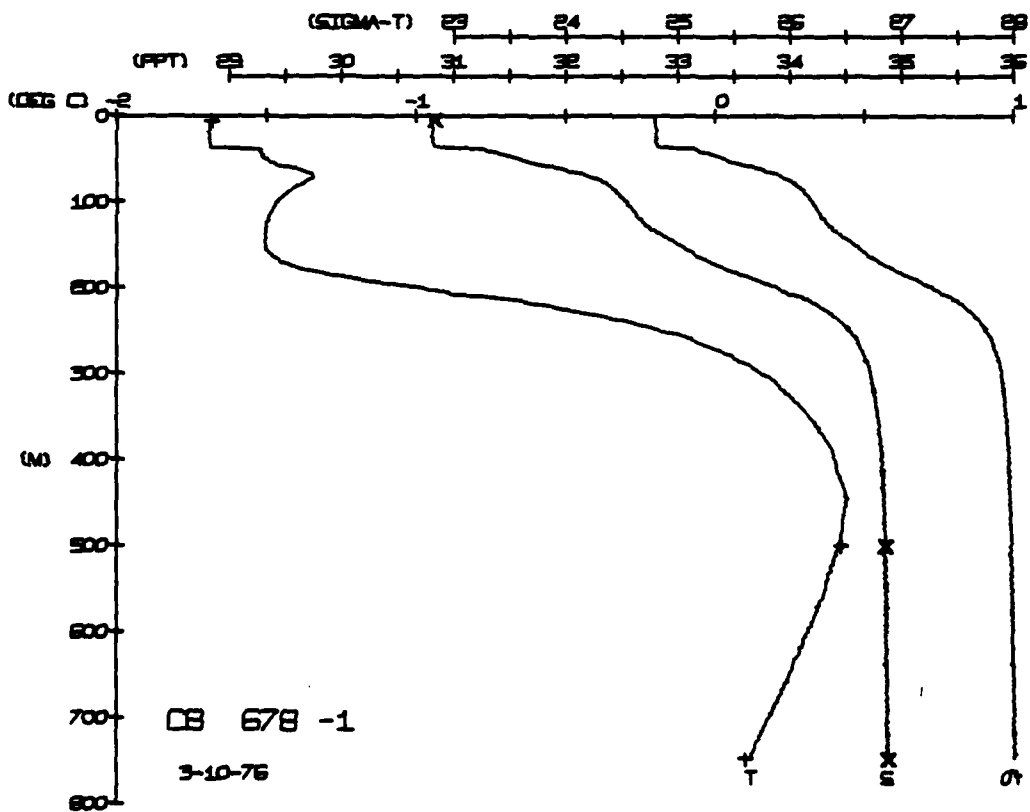
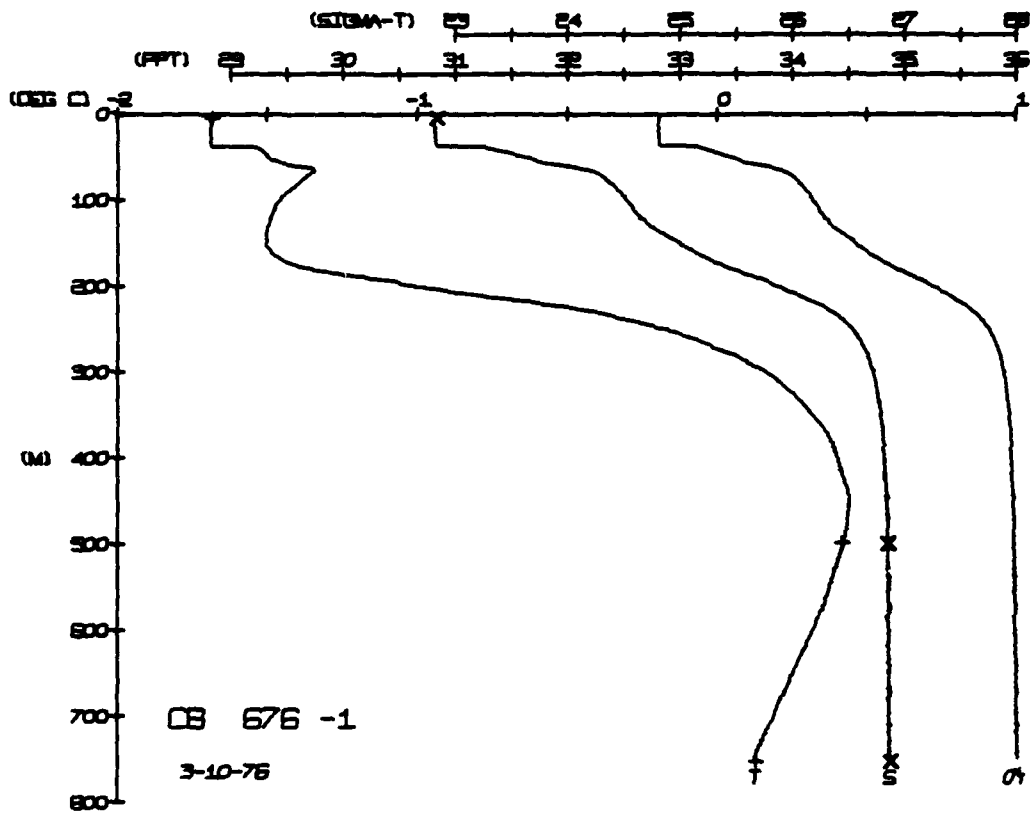
BUT NUM = 1  
 BUT NUM = 2  
 BUT NUM = 3  
 BUT NUM = 4  
 BUT NUM = 5  
 BUT NUM = 6



CARIBOU STATION 678(1) CTD 10/MAR/1976 1800 GMT CUDE = 1  
 LAT = 72.9770N LNG = 144.4616W LTER = 0 LGER = 0  
 AIR TEMP = -37.7 BAROM = 1025.1 WIND = 52.6 SPEED = 23.6

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.0	9.9	9.9	30.0	1.1	6.5	0.0	1.0
0.5	9.5	9.5	30.5	1.2	6.5	0.0	1.0
1.0	9.0	9.0	31.0	1.3	6.5	0.0	1.0
1.5	8.5	8.5	31.5	1.4	6.5	0.0	1.0
2.0	8.0	8.0	32.0	1.5	6.5	0.0	1.0
2.5	7.5	7.5	32.5	1.6	6.5	0.0	1.0
3.0	7.0	7.0	33.0	1.7	6.5	0.0	1.0
3.5	6.5	6.5	33.5	1.8	6.5	0.0	1.0
4.0	6.0	6.0	34.0	1.9	6.5	0.0	1.0
4.5	5.5	5.5	34.5	2.0	6.5	0.0	1.0
5.0	5.0	5.0	35.0	2.1	6.5	0.0	1.0
5.5	4.5	4.5	35.5	2.2	6.5	0.0	1.0
6.0	4.0	4.0	36.0	2.3	6.5	0.0	1.0
6.5	3.5	3.5	36.5	2.4	6.5	0.0	1.0
7.0	3.0	3.0	37.0	2.5	6.5	0.0	1.0
7.5	2.5	2.5	37.5	2.6	6.5	0.0	1.0
8.0	2.0	2.0	38.0	2.7	6.5	0.0	1.0
8.5	1.5	1.5	38.5	2.8	6.5	0.0	1.0
9.0	1.0	1.0	39.0	2.9	6.5	0.0	1.0
9.5	0.5	0.5	39.5	3.0	6.5	0.0	1.0
10.0	0.0	0.0	40.0	3.1	6.5	0.0	1.0
10.5	0.0	0.0	40.5	3.2	6.5	0.0	1.0
11.0	0.0	0.0	41.0	3.3	6.5	0.0	1.0
11.5	0.0	0.0	41.5	3.4	6.5	0.0	1.0
12.0	0.0	0.0	42.0	3.5	6.5	0.0	1.0
12.5	0.0	0.0	42.5	3.6	6.5	0.0	1.0
13.0	0.0	0.0	43.0	3.7	6.5	0.0	1.0
13.5	0.0	0.0	43.5	3.8	6.5	0.0	1.0
14.0	0.0	0.0	44.0	3.9	6.5	0.0	1.0
14.5	0.0	0.0	44.5	4.0	6.5	0.0	1.0
15.0	0.0	0.0	45.0	4.1	6.5	0.0	1.0
15.5	0.0	0.0	45.5	4.2	6.5	0.0	1.0
16.0	0.0	0.0	46.0	4.3	6.5	0.0	1.0
16.5	0.0	0.0	46.5	4.4	6.5	0.0	1.0
17.0	0.0	0.0	47.0	4.5	6.5	0.0	1.0
17.5	0.0	0.0	47.5	4.6	6.5	0.0	1.0
18.0	0.0	0.0	48.0	4.7	6.5	0.0	1.0
18.5	0.0	0.0	48.5	4.8	6.5	0.0	1.0
19.0	0.0	0.0	49.0	4.9	6.5	0.0	1.0
19.5	0.0	0.0	49.5	5.0	6.5	0.0	1.0
20.0	0.0	0.0	50.0	5.1	6.5	0.0	1.0
20.5	0.0	0.0	50.5	5.2	6.5	0.0	1.0
21.0	0.0	0.0	51.0	5.3	6.5	0.0	1.0
21.5	0.0	0.0	51.5	5.4	6.5	0.0	1.0
22.0	0.0	0.0	52.0	5.5	6.5	0.0	1.0
22.5	0.0	0.0	52.5	5.6	6.5	0.0	1.0
23.0	0.0	0.0	53.0	5.7	6.5	0.0	1.0
23.5	0.0	0.0	53.5	5.8	6.5	0.0	1.0
24.0	0.0	0.0	54.0	5.9	6.5	0.0	1.0
24.5	0.0	0.0	54.5	6.0	6.5	0.0	1.0
25.0	0.0	0.0	55.0	6.1	6.5	0.0	1.0
25.5	0.0	0.0	55.5	6.2	6.5	0.0	1.0
26.0	0.0	0.0	56.0	6.3	6.5	0.0	1.0
26.5	0.0	0.0	56.5	6.4	6.5	0.0	1.0
27.0	0.0	0.0	57.0	6.5	6.5	0.0	1.0
27.5	0.0	0.0	57.5	6.6	6.5	0.0	1.0
28.0							

[illegible]





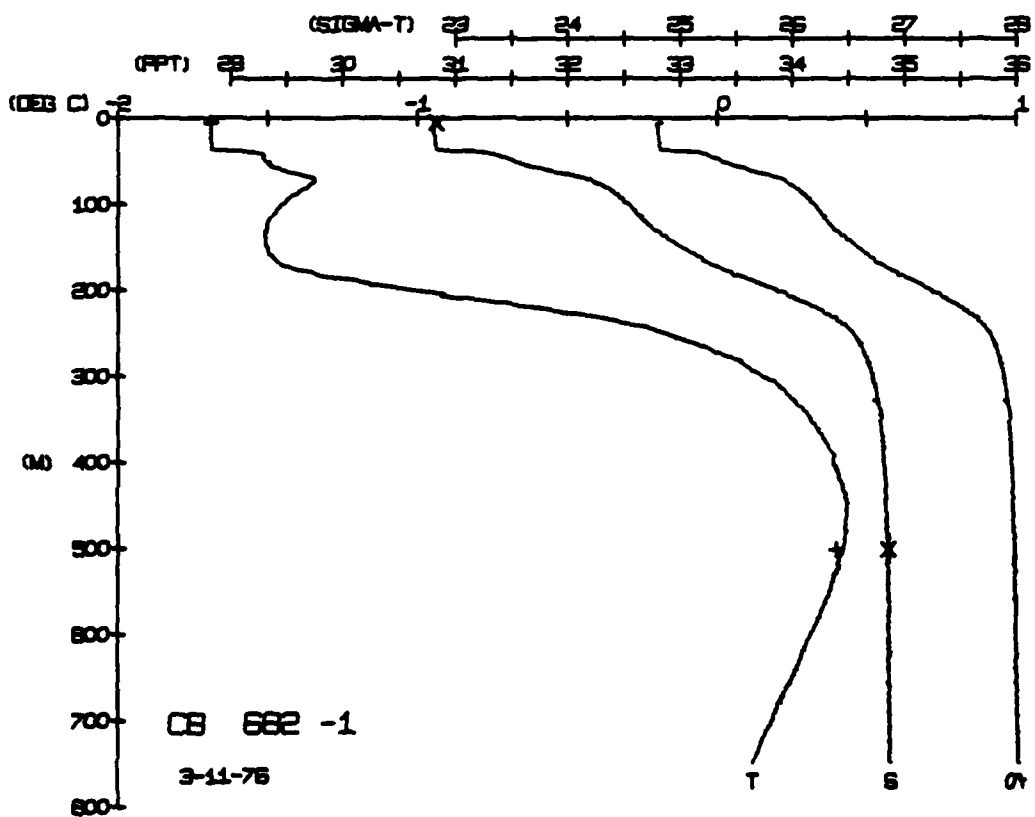
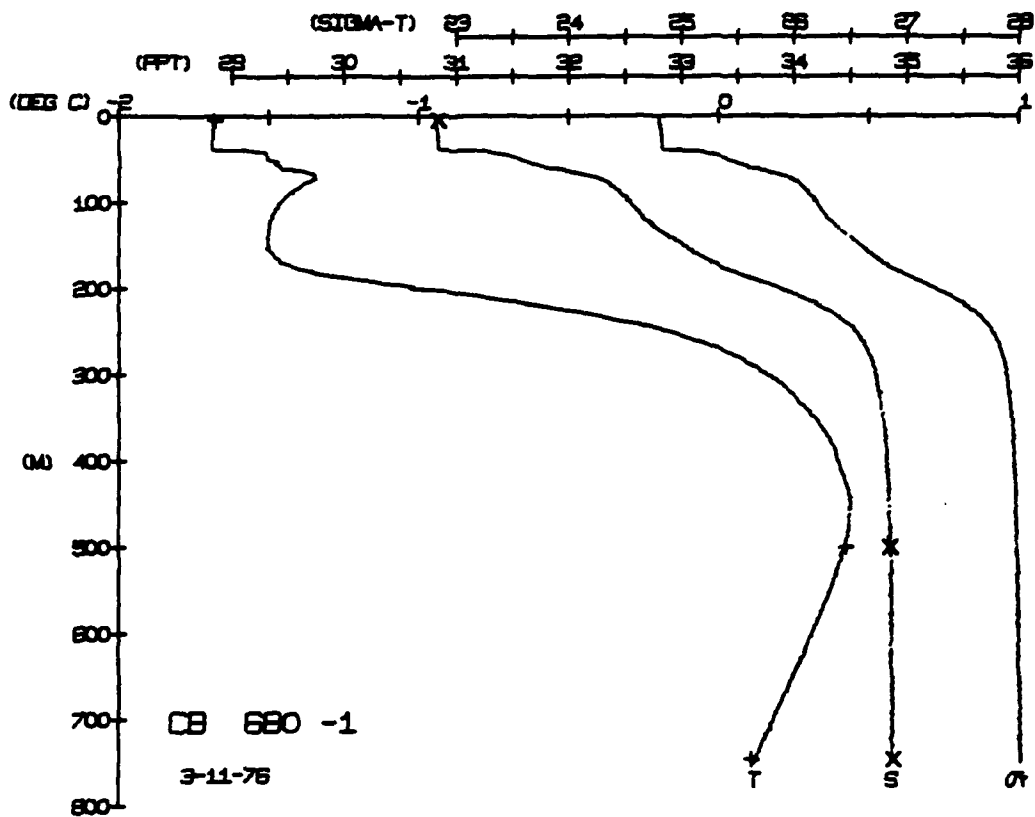
CARIBOU STATION 682(1) CTD 11/MAR/1976 1900 GMT CODE = 1  
LAT = 72.9719N LNG = 144.4779W ITER = 1 LGER = 1  
AIR TEMP = -34.2 BARUM = 1021.0 WIND = 7.6 SPT.FU = 7.6

[illegible]

BUT NUM	DEPTH	TEMP.	SALIN
BUT NUM = 1	4.6	-1.68	30.84
BUT NUM = 2	499.5	0.43	34.86
BUT NUM = 3	744.9	0.11	34.89

[illegible]

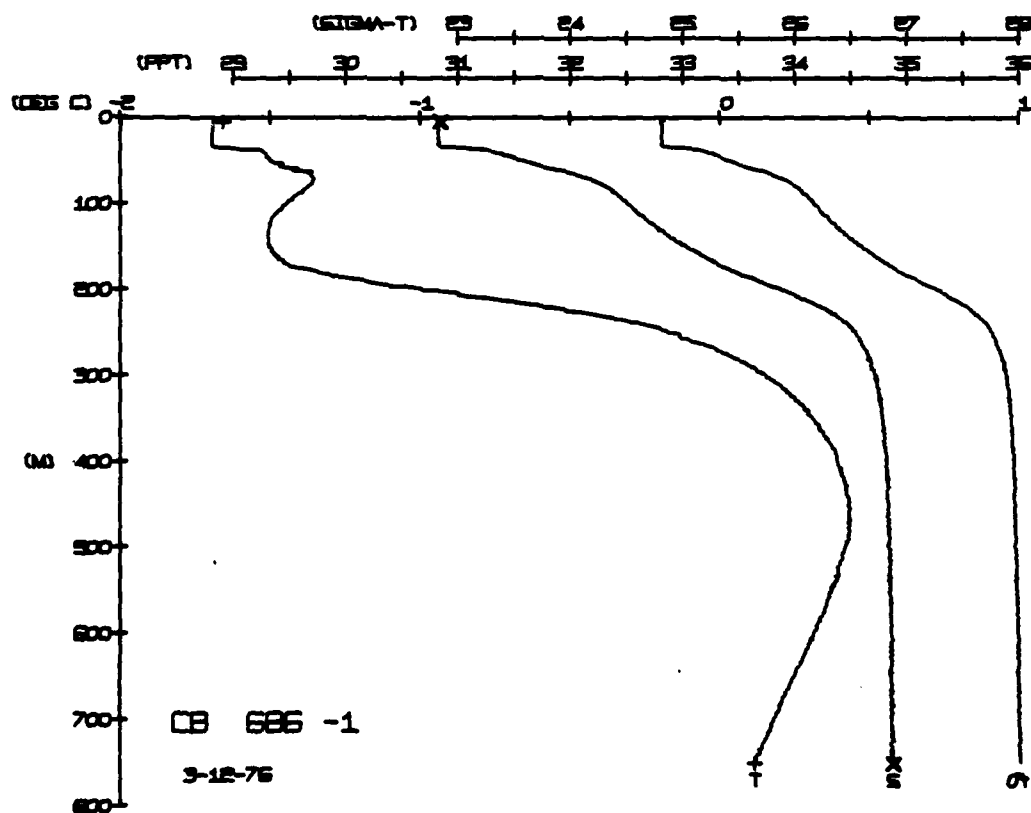
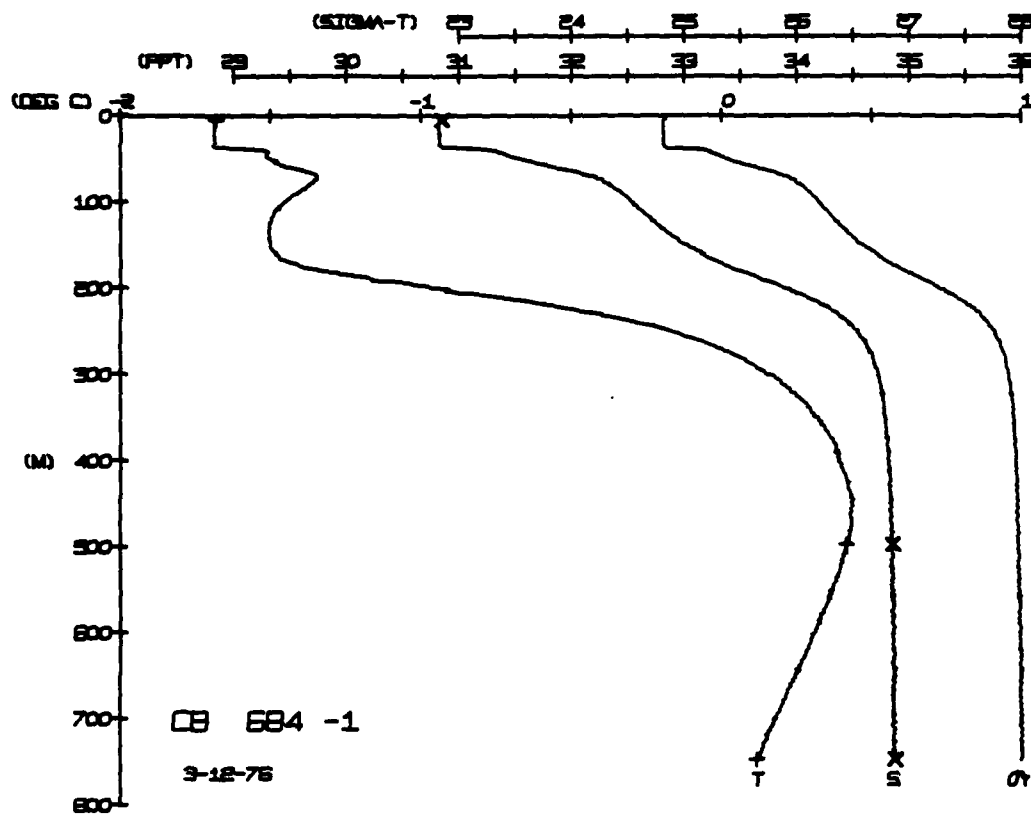
	DEPTH	TEMP.	SALIN
HOT NUM = 1	5.5	-1.69	30.83
COLD NUM = 2	500.6	0.40	34.86



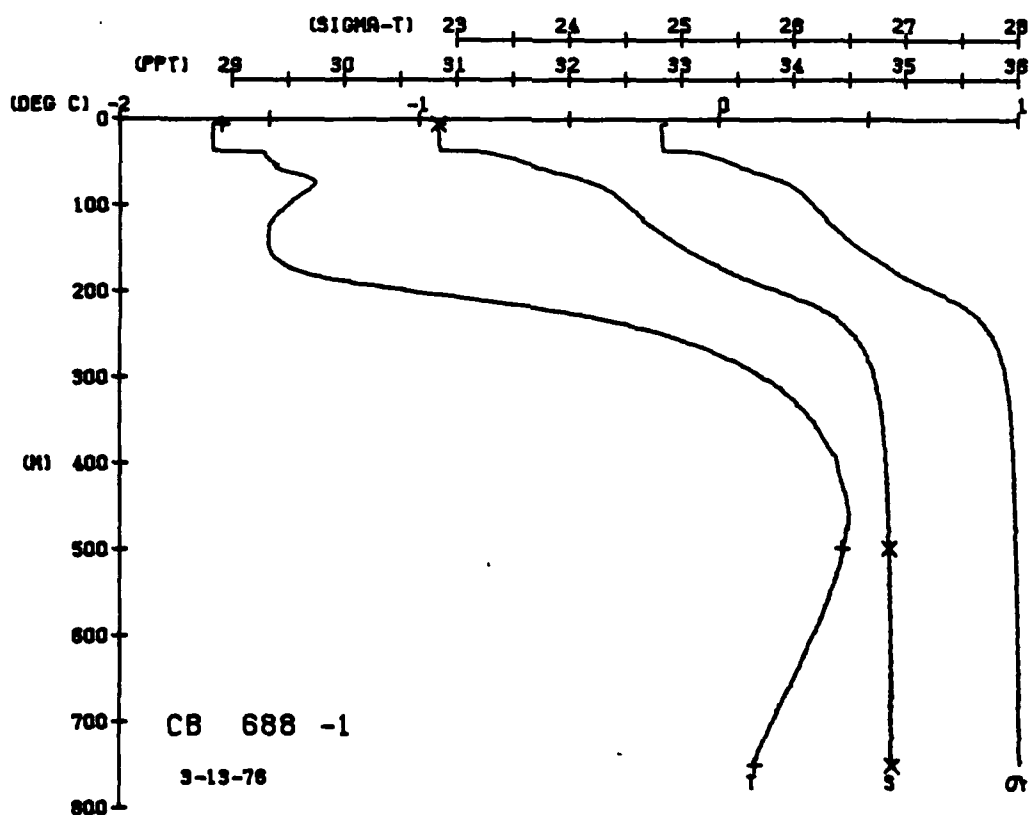
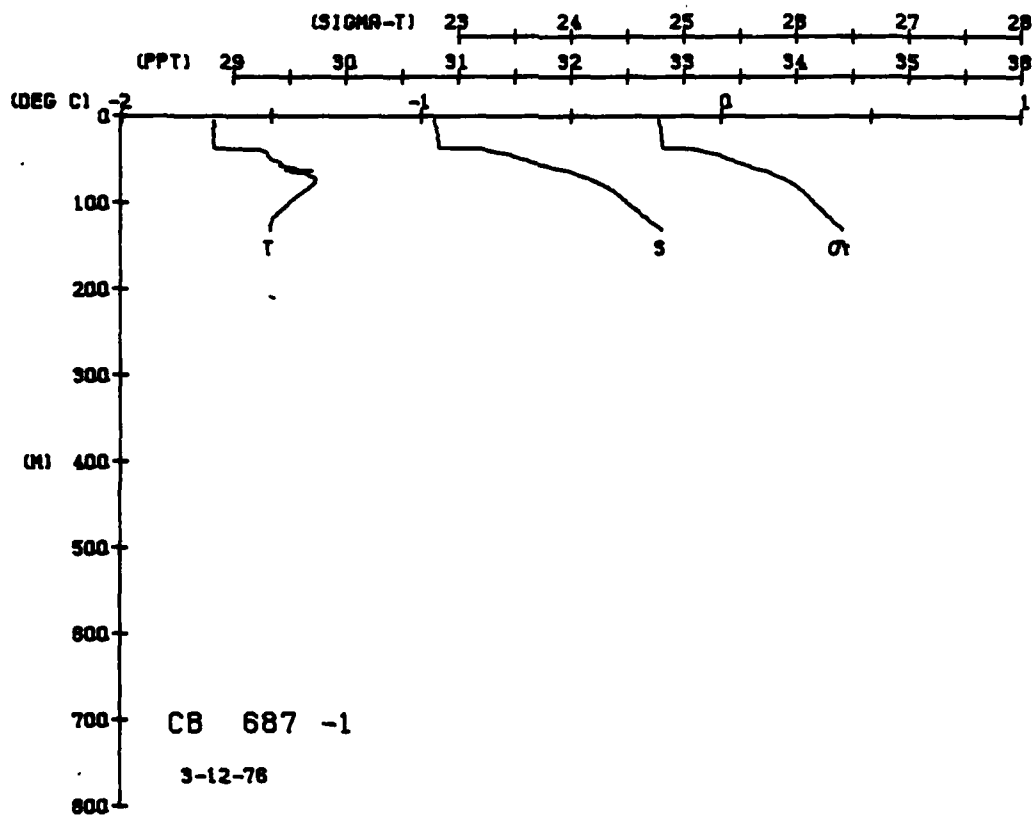
CANIBUW STATION 684(1) CTD 12/MAR/1976 600 GMT CODE = 1  
 CLAY = 72.9690 LNG = 144.4873W UTKR = 0 LGRR = 0  
 ALN TEMP = -34.2 BARUM = 1019.9 WIND = 7.6 SPEED = 7.6

[illegible]

DEPTH	TEMP.	SALIN
5.5	-1.69	30.84
497.3	0.42	34.86
746.1	0.12	34.89



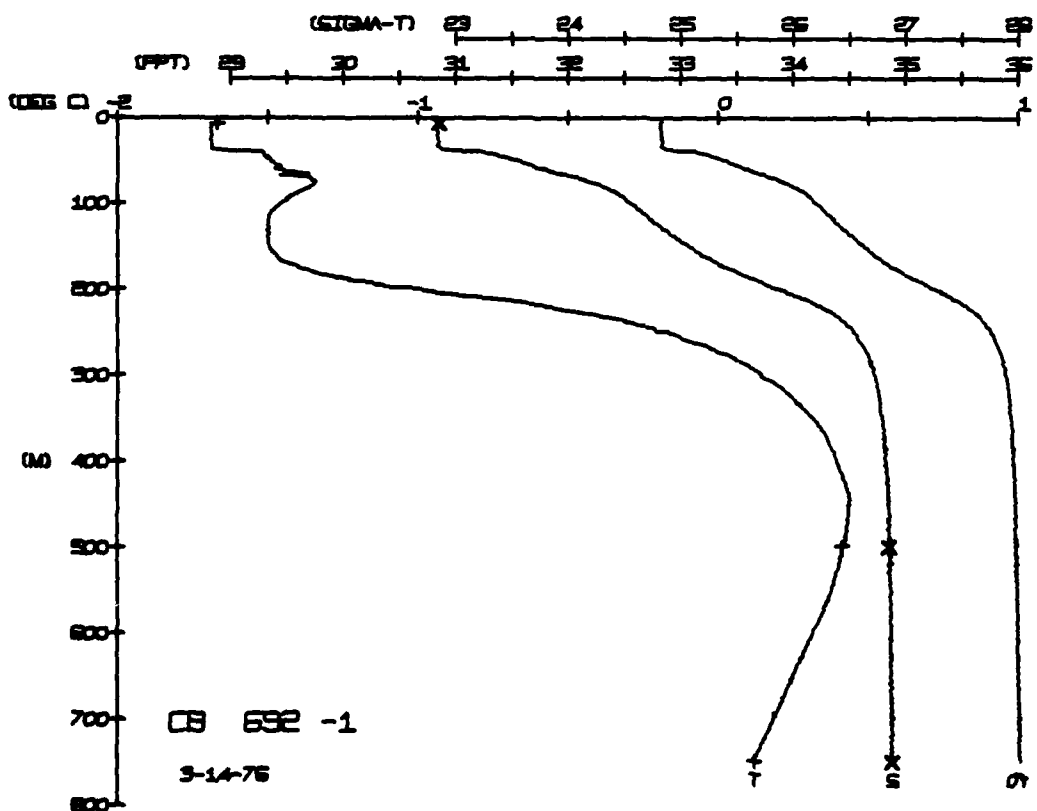
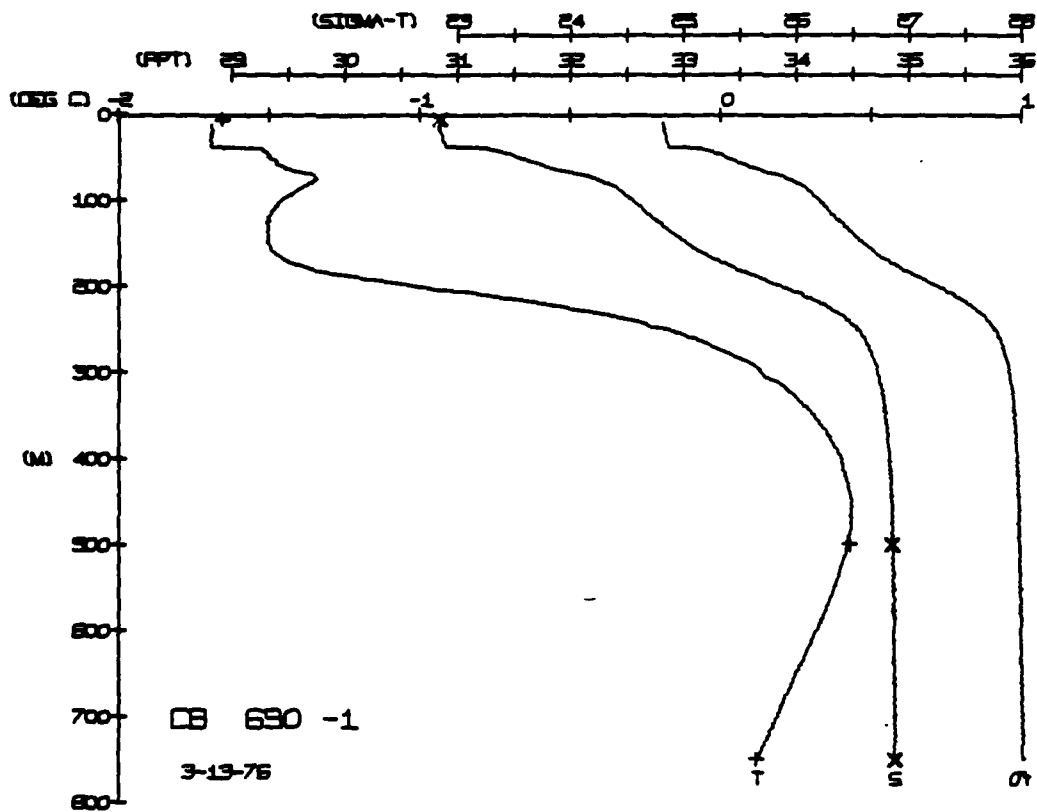




CARIBOU STATION 692(1) CTD 14/MAR/1976 600 GMT CODE = 1  
LAT = 72.9480N LNG = 144.4541W UTER = 1 LGER = 2  
AIR TEMP = -31.0 BAROM = 1019.6 WIND = 277.8 SPEED = 57.8

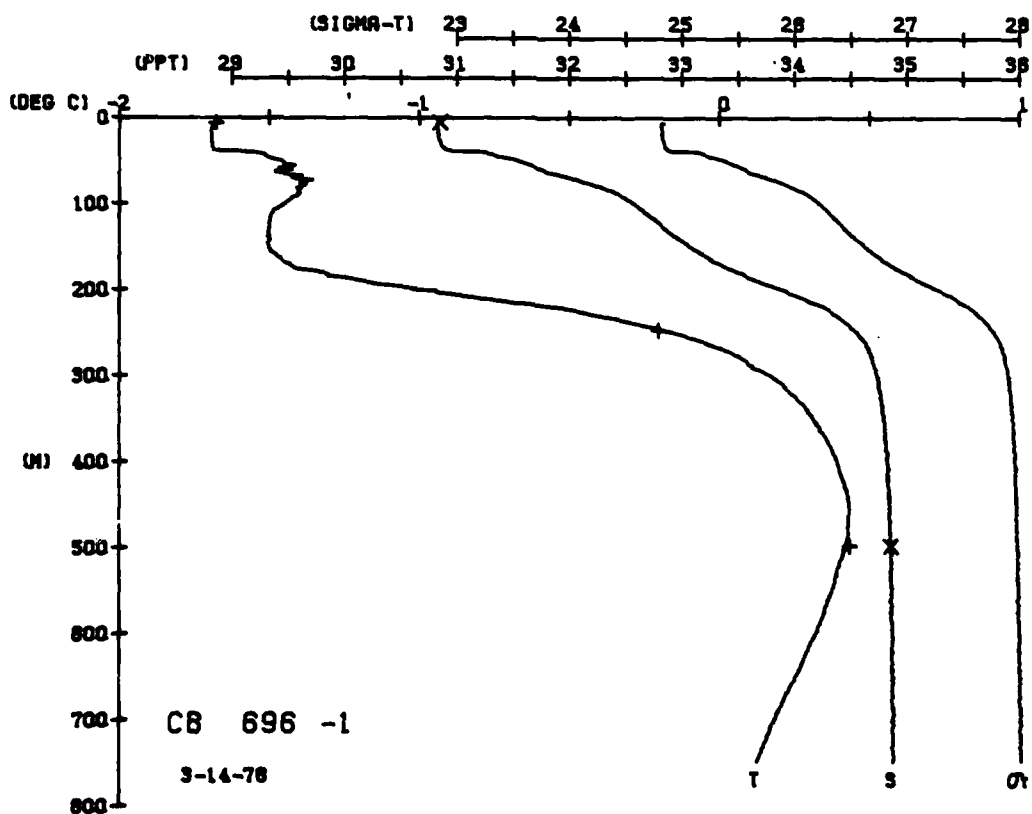
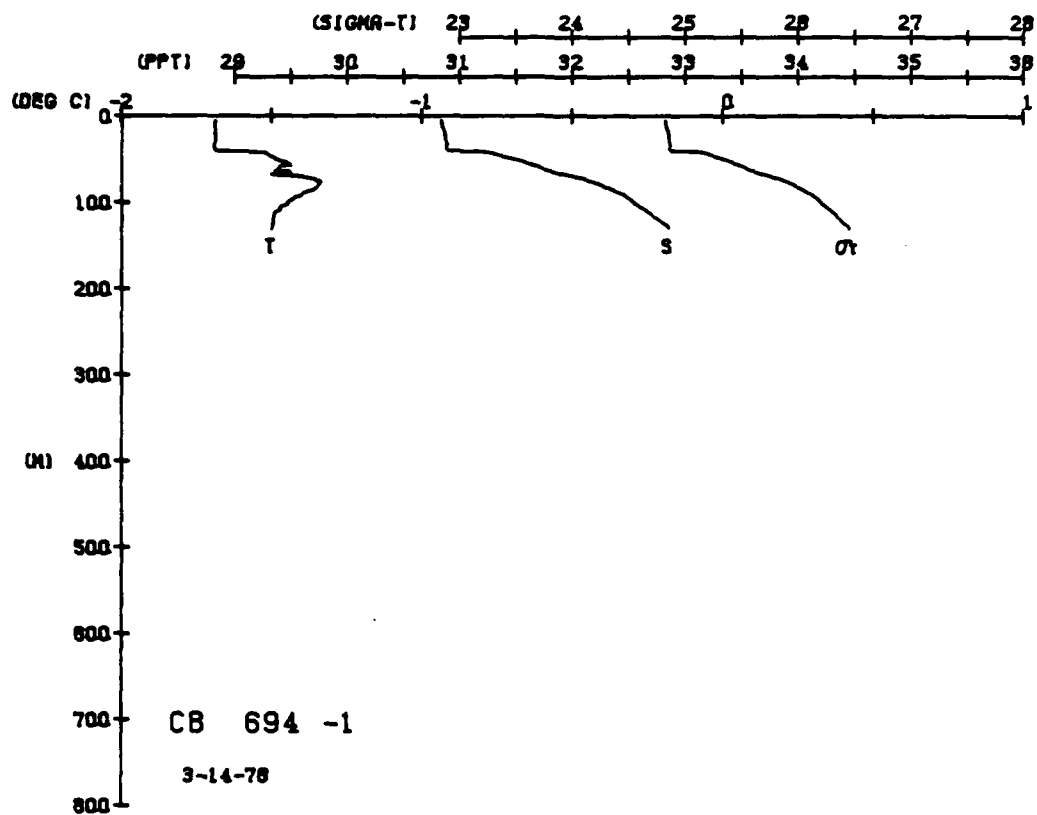
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DINH	SOUND	DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DINH	SOUND
950	66.7	66.7	30.0	2.2	1.1	0.0	0.0	950	66.7	66.7	30.0	2.2	1.1	0.0	0.0
940	66.8	66.8	30.0	2.2	1.1	0.0	0.0	940	66.8	66.8	30.0	2.2	1.1	0.0	0.0
930	66.9	66.9	30.0	2.2	1.1	0.0	0.0	930	66.9	66.9	30.0	2.2	1.1	0.0	0.0
920	67.0	67.0	30.0	2.2	1.1	0.0	0.0	920	67.0	67.0	30.0	2.2	1.1	0.0	0.0
910	67.1	67.1	30.0	2.2	1.1	0.0	0.0	910	67.1	67.1	30.0	2.2	1.1	0.0	0.0
900	67.2	67.2	30.0	2.2	1.1	0.0	0.0	900	67.2	67.2	30.0	2.2	1.1	0.0	0.0
890	67.3	67.3	30.0	2.2	1.1	0.0	0.0	890	67.3	67.3	30.0	2.2	1.1	0.0	0.0
880	67.4	67.4	30.0	2.2	1.1	0.0	0.0	880	67.4	67.4	30.0	2.2	1.1	0.0	0.0
870	67.5	67.5	30.0	2.2	1.1	0.0	0.0	870	67.5	67.5	30.0	2.2	1.1	0.0	0.0
860	67.6	67.6	30.0	2.2	1.1	0.0	0.0	860	67.6	67.6	30.0	2.2	1.1	0.0	0.0
850	67.7	67.7	30.0	2.2	1.1	0.0	0.0	850	67.7	67.7	30.0	2.2	1.1	0.0	0.0
840	67.8	67.8	30.0	2.2	1.1	0.0	0.0	840	67.8	67.8	30.0	2.2	1.1	0.0	0.0
830	67.9	67.9	30.0	2.2	1.1	0.0	0.0	830	67.9	67.9	30.0	2.2	1.1	0.0	0.0
820	68.0	68.0	30.0	2.2	1.1	0.0	0.0	820	68.0	68.0	30.0	2.2	1.1	0.0	0.0
810	68.1	68.1	30.0	2.2	1.1	0.0	0.0	810	68.1	68.1	30.0	2.2	1.1	0.0	0.0
800	68.2	68.2	30.0	2.2	1.1	0.0	0.0	800	68.2	68.2	30.0	2.2	1.1	0.0	0.0
790	68.3	68.3	30.0	2.2	1.1	0.0	0.0	790	68.3	68.3	30.0	2.2	1.1	0.0	0.0
780	68.4	68.4	30.0	2.2	1.1	0.0	0.0	780	68.4	68.4	30.0	2.2	1.1	0.0	0.0
770	68.5	68.5	30.0	2.2	1.1	0.0	0.0	770	68.5	68.5	30.0	2.2	1.1	0.0	0.0
760	68.6	68.6	30.0	2.2	1.1	0.0	0.0	760	68.6	68.6	30.0	2.2	1.1	0.0	0.0
750	68.7	68.7	30.0	2.2	1.1	0.0	0.0	750	68.7	68.7	30.0	2.2	1.1	0.0	0.0
740	68.8	68.8	30.0	2.2	1.1	0.0	0.0	740	68.8	68.8	30.0	2.2	1.1	0.0	0.0
730	68.9	68.9	30.0	2.2	1.1	0.0	0.0	730	68.9	68.9	30.0	2.2	1.1	0.0	0.0
720	69.0	69.0	30.0	2.2	1.1	0.0	0.0	720	69.0	69.0	30.0	2.2	1.1	0.0	0.0
710	69.1	69.1	30.0	2.2	1.1	0.0	0.0	710	69.1	69.1	30.0	2.2	1.1	0.0	0.0
700	69.2	69.2													

[illegible]

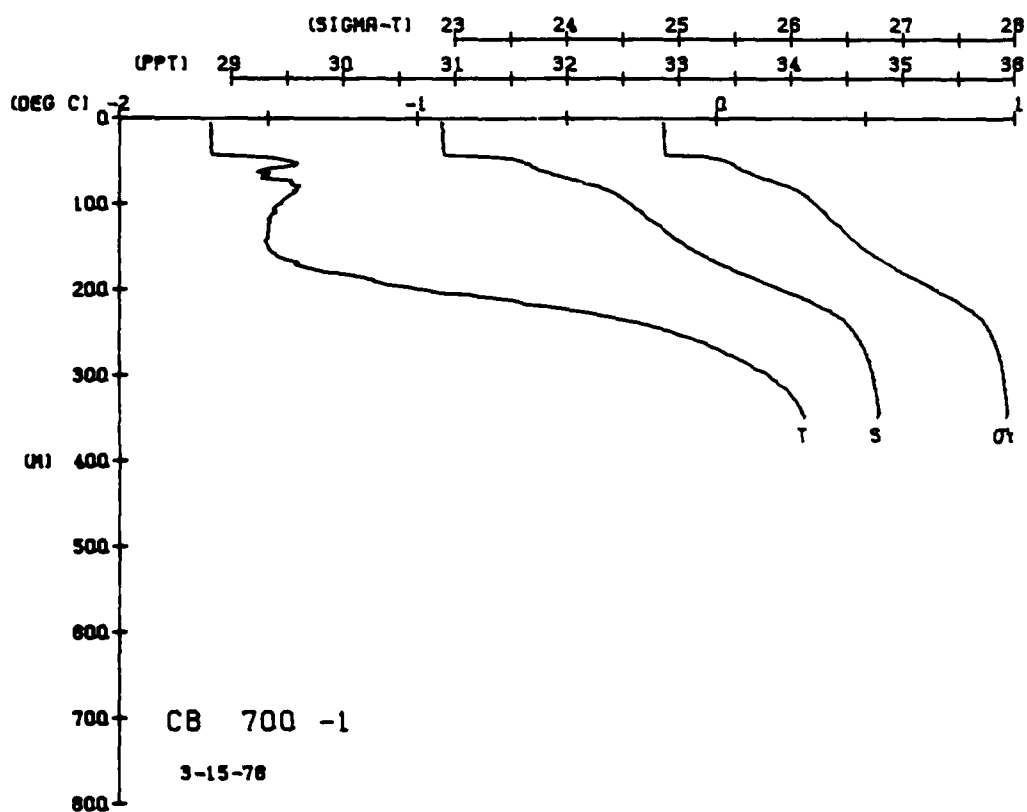
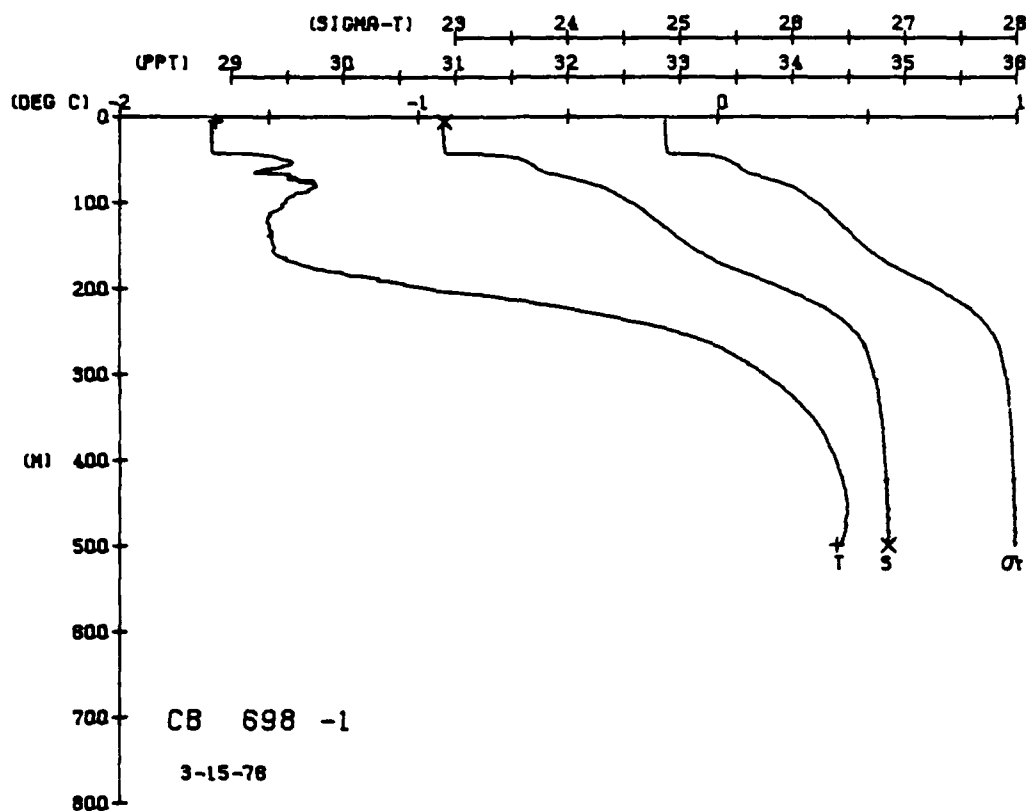




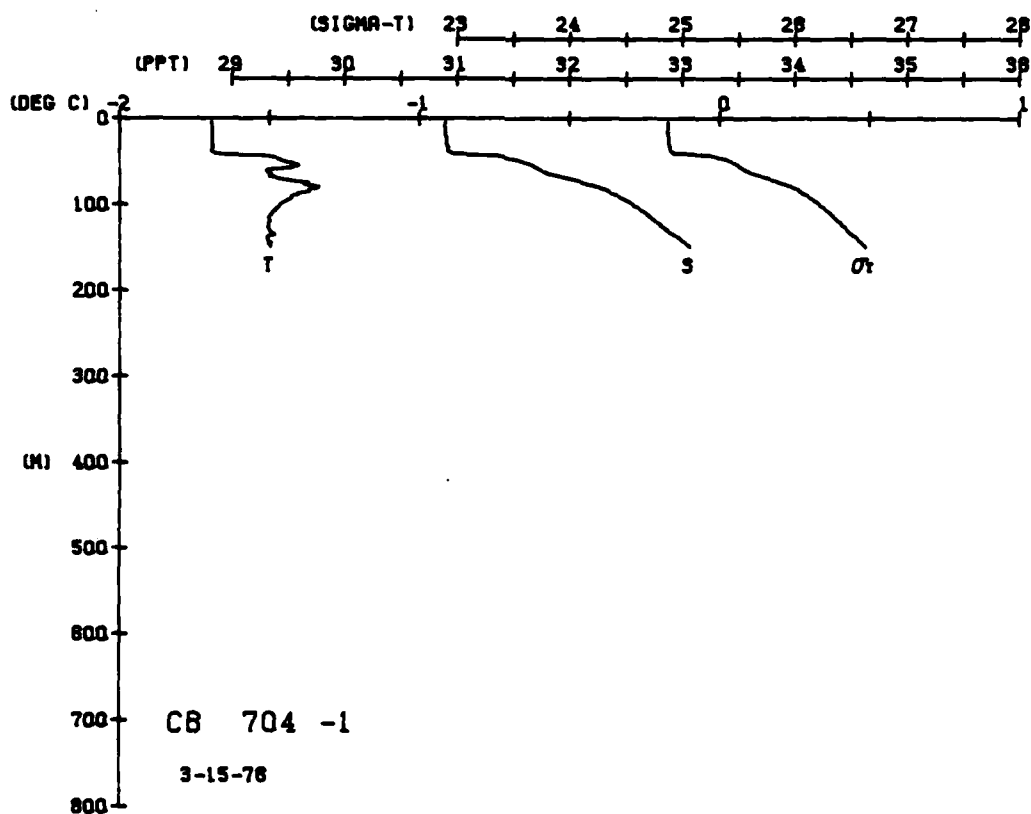
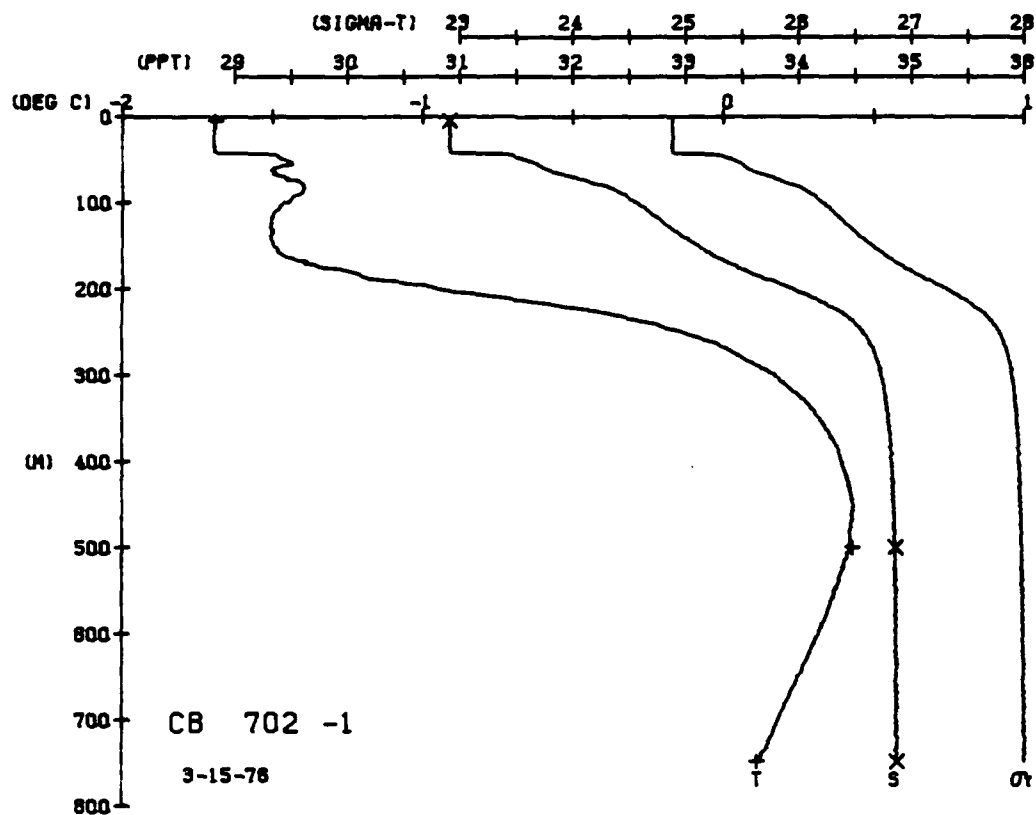




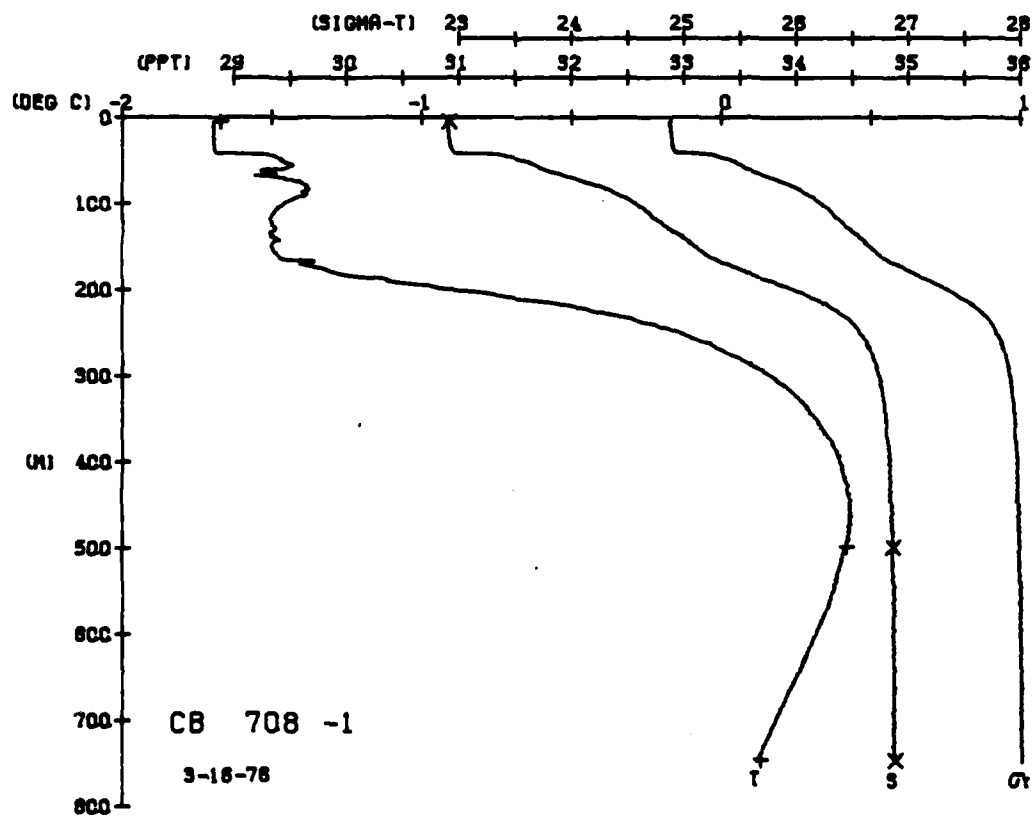
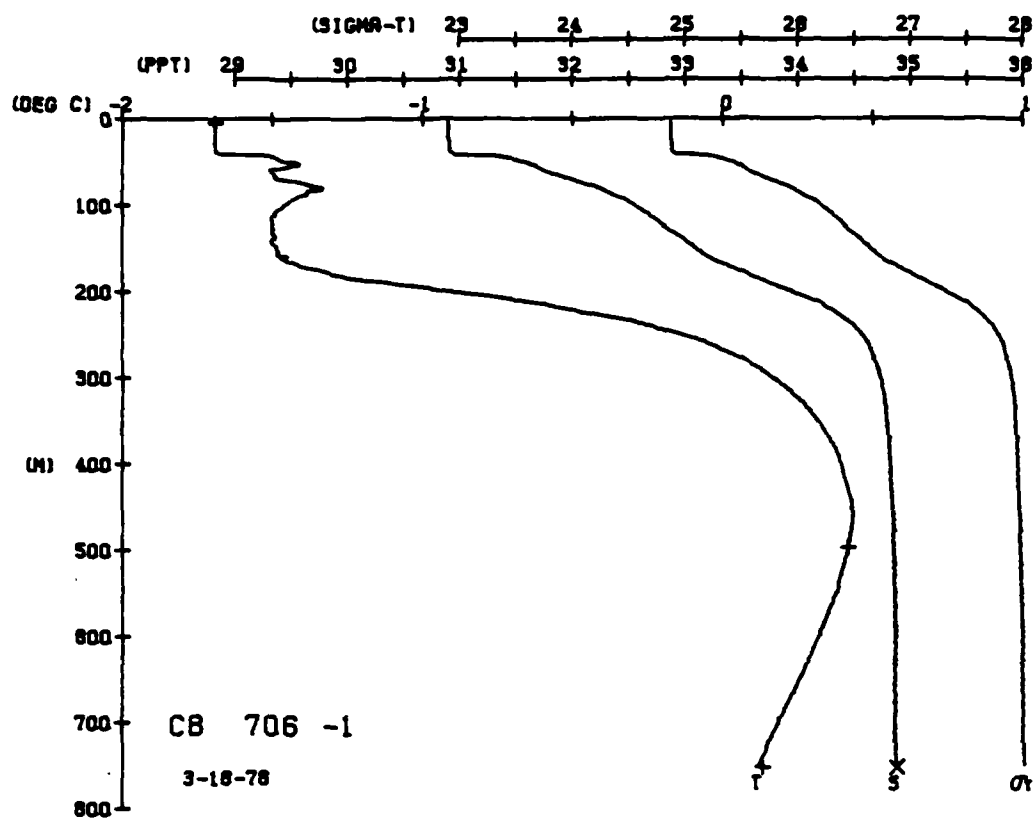










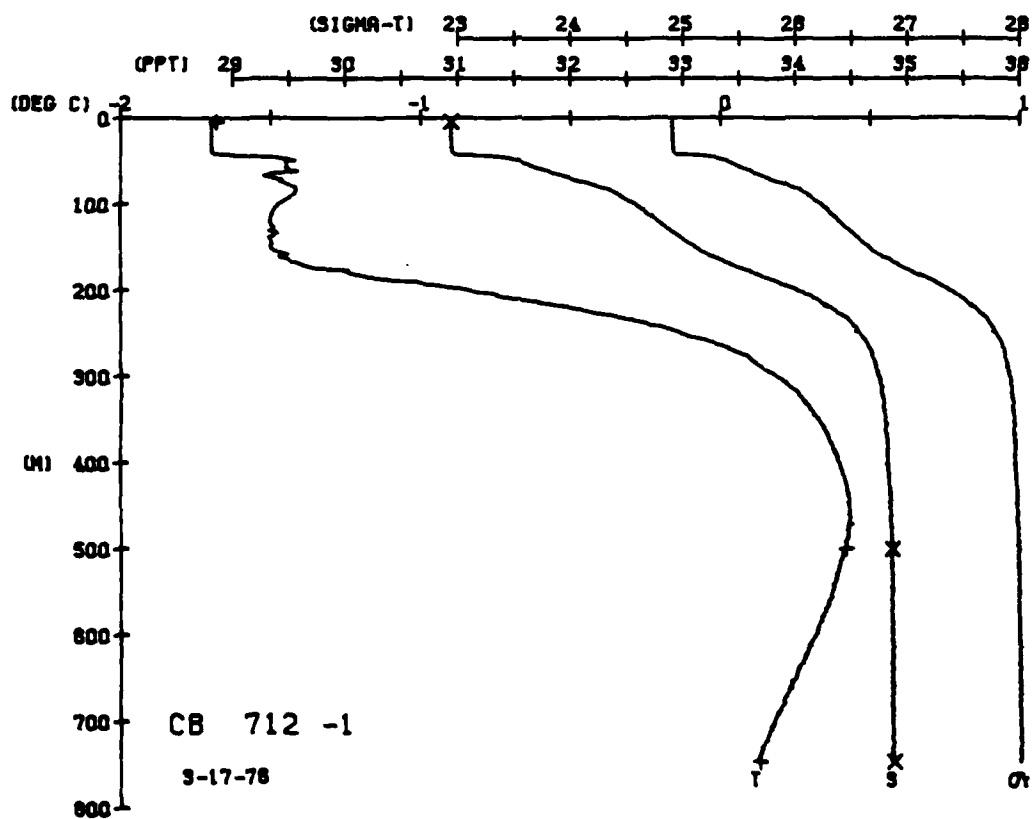
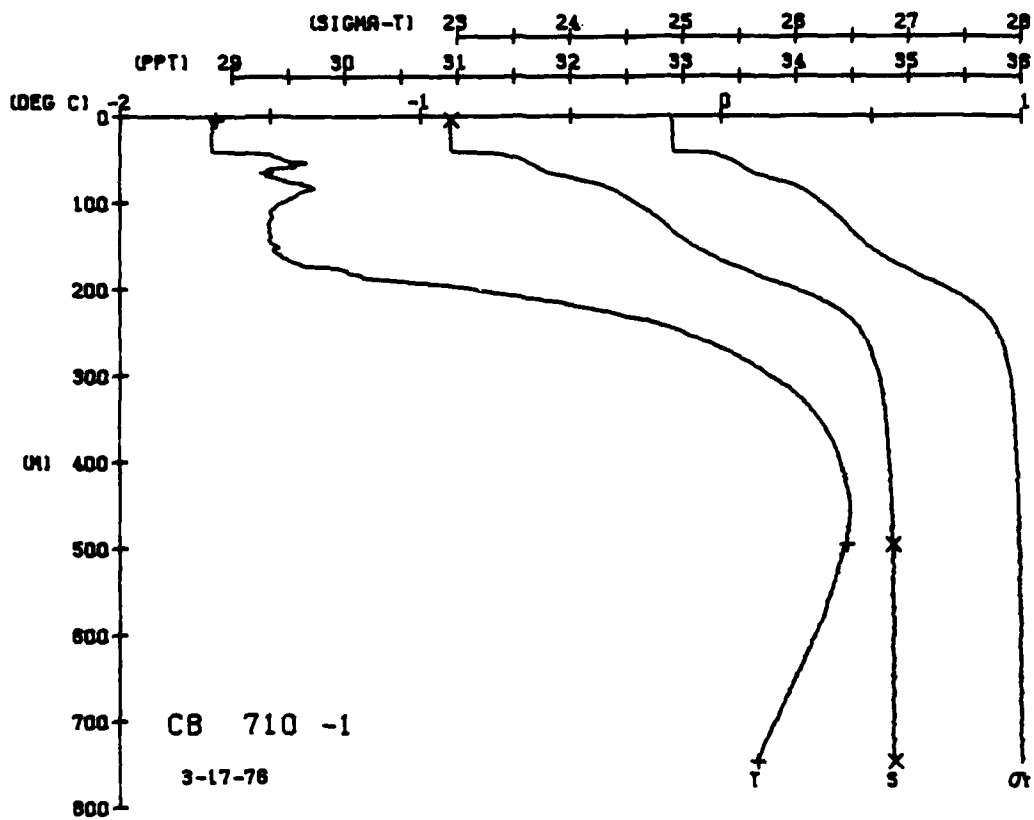




CARIBOU STATION 712(1) CTD 17/MAR/1976 1820 GMT CODE = 1  
LAT = 72.7232N LNG = 144.1701W LTR = 1 LGR = 2  
AIR TEMP = 101.2 WIND = 301.2 SPEED = 68.3

[illegible]

DEPTH	TEMP.	SALIN.
4.5	-1.69	30.94
500.4	0.42	34.87
747.2	0.14	34.89



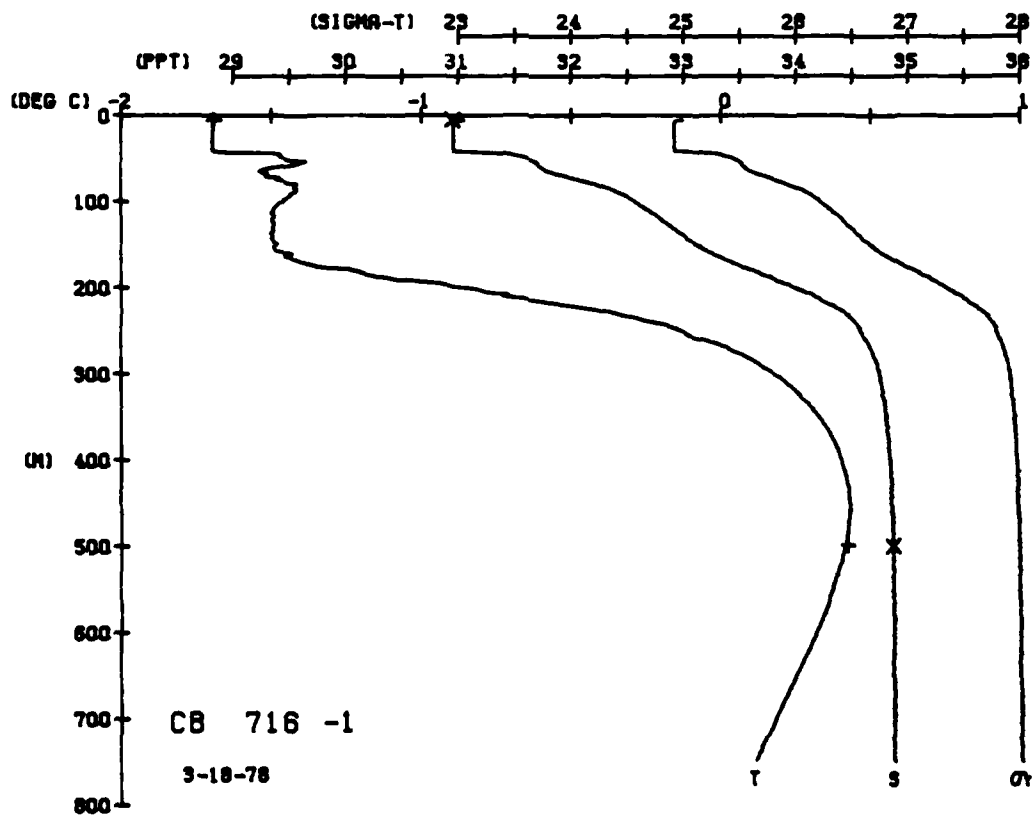
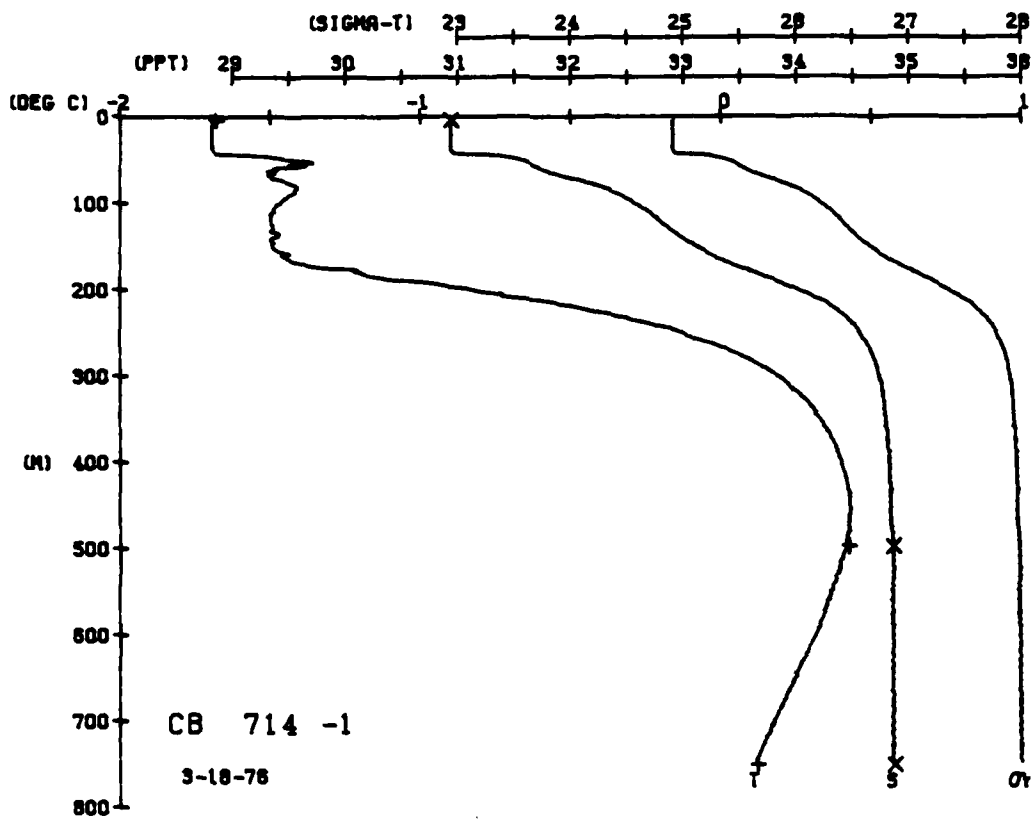
STATION 716(1) CTD 19/MAR/1976 1803 GMT CODE = 1  
CARIBBUW LAT = 72.7224N LNG = 144.1657W LTER = 2 LGER = 4  
AIR TEMP = 101.9 WIND = 69.2 SPEED = 10.0  
BAROM = 1011.9

[illegible]

BOT NUM	DEPTH	TEMP.	SALIN
1	4.3	-1.68	30.94
2	497.1	0.43	34.87
3	750.1	0.3	34.89

[illegible]

	DEPTH	TEMP.	SALIN
BUT NUM = 1	4.5	-1.69	30.94
BUT NUM = 2	498.6	0.43	34.87
BUT NUM = 3	748.2		



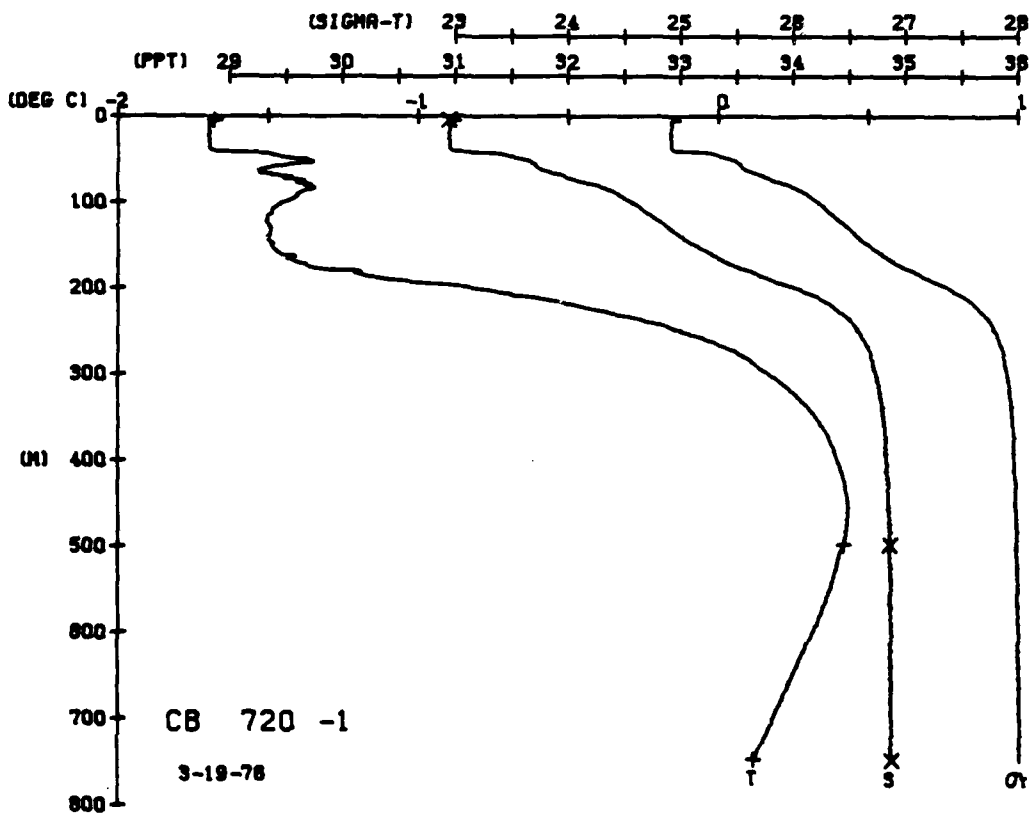
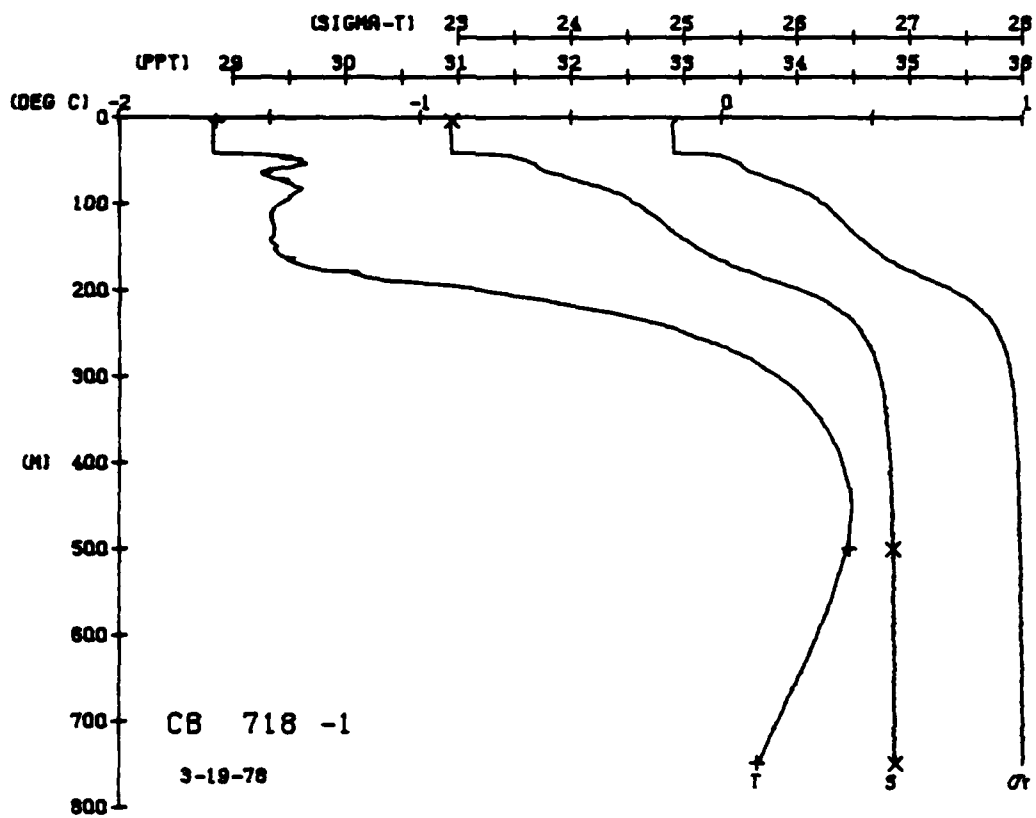
CARIBOU STATION 720(1) CTD 19/MAR/1976 1803 GMT CODE = 1  
LAT = 72.7225N LNG = 144.1684W I.T.E.R. = 0 UGER = 0  
AIP EMP = -28.9 BARUM = 1015.3 WIND = 312.4 SPED = 16.7

A 10x10 grid of 100 square tiles. Each tile contains a unique, complex pattern of black and white dots and lines. The patterns vary significantly from tile to tile, creating a rich, textured visual field. Some tiles have dense clusters of dots, while others have sparse, scattered dots. Some feature thin, intersecting lines, while others have thicker, more prominent lines. The overall effect is a highly detailed and intricate abstract composition.

BOI	NUM	DEPTH	TEMP.	SALIN
BOI	NUM = 1	4.3	-1.68	30.94
BOI	NUM = 2	499.9	0.43	34.87
BOI	NUM = 3	746.3	0.12	34.89

[illegible]

ROT NUM =	DEPTH	TEMP.	SALIN
1	4.8	-1.68	30.94
2	497.5	0.42	34.87
3	747.8	0.12	34.89



CARIBBU STATION 722(1) CTD 20/MAR/1976 900 GMT CODE = 1  
LAT = 72.722N LMG = 144.165W LIER = 2 LGER = 4  
AIR TEMP = -28.9 WIND = 312.2 WIND = 16.7

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
0	1.67	1.67	30.98	24.94	302.3	0.00	8.88
5	1.67	1.67	30.98	24.94	302.3	0.01	8.88
10	1.67	1.67	30.98	24.94	302.3	0.01	8.88
15	1.67	1.67	30.98	24.94	302.3	0.01	8.88
20	1.67	1.67	30.98	24.94	302.3	0.01	8.88
25	1.67	1.67	30.98	24.94	302.3	0.01	8.88
30	1.67	1.67	30.98	24.94	302.3	0.01	8.88
35	1.67	1.67	30.98	24.94	302.3	0.01	8.88
40	1.67	1.67	30.98	24.94	302.3	0.01	8.88
45	1.67	1.67	30.98	24.94	302.3	0.01	8.88
50	1.67	1.67	30.98	24.94	302.3	0.01	8.88
55	1.67	1.67	30.98	24.94	302.3	0.01	8.88
60	1.67	1.67	30.98	24.94	302.3	0.01	8.88
65	1.67	1.67	30.98	24.94	302.3	0.01	8.88
70	1.67	1.67	30.98	24.94	302.3	0.01	8.88
75	1.67	1.67	30.98	24.94	302.3	0.01	8.88
80	1.67	1.67	30.98	24.94	302.3	0.01	8.88
85	1.67	1.67	30.98	24.94	302.3	0.01	8.88
90	1.67	1.67	30.98	24.94	302.3	0.01	8.88
95	1.67	1.67	30.98	24.94	302.3	0.01	8.88
100	1.67	1.67	30.98	24.94	302.3	0.01	8.88
105	1.67	1.67	30.98	24.94	302.3	0.01	8.88
110	1.67	1.67	30.98	24.94	302.3	0.01	8.88
115	1.67	1.67	30.98	24.94	302.3	0.01	8.88
120	1.67	1.67	30.98	24.94	302.3	0.01	8.88

DEPTH TEMP. SALIN

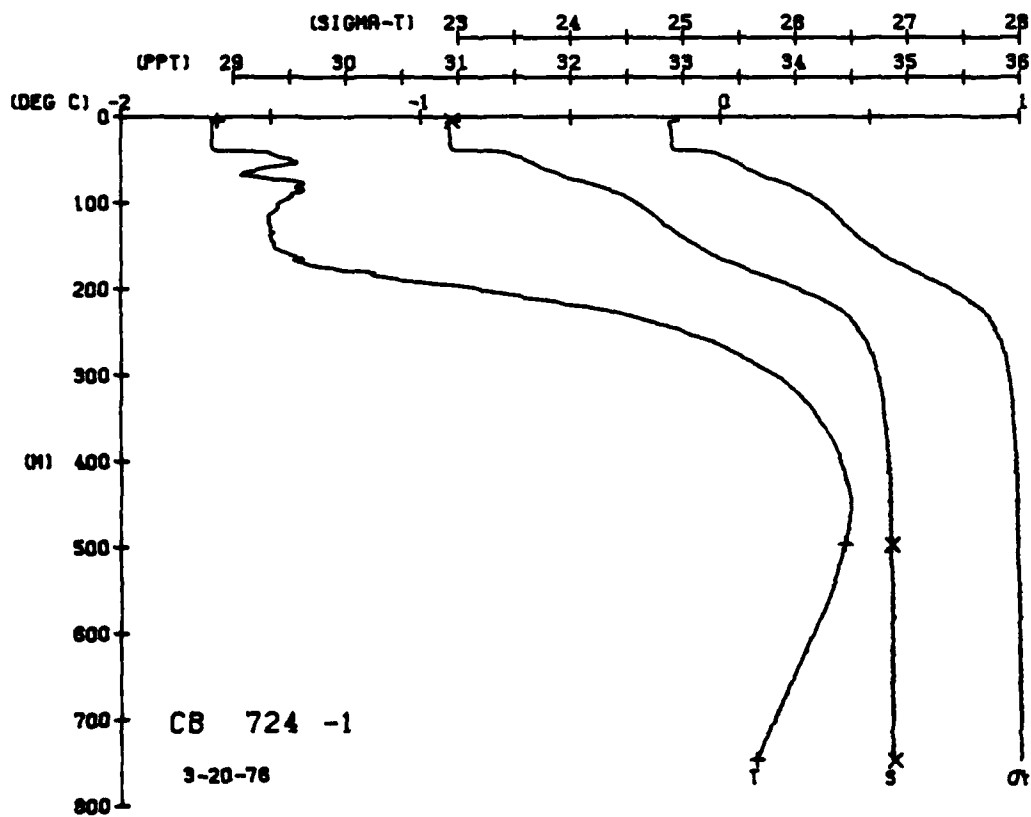
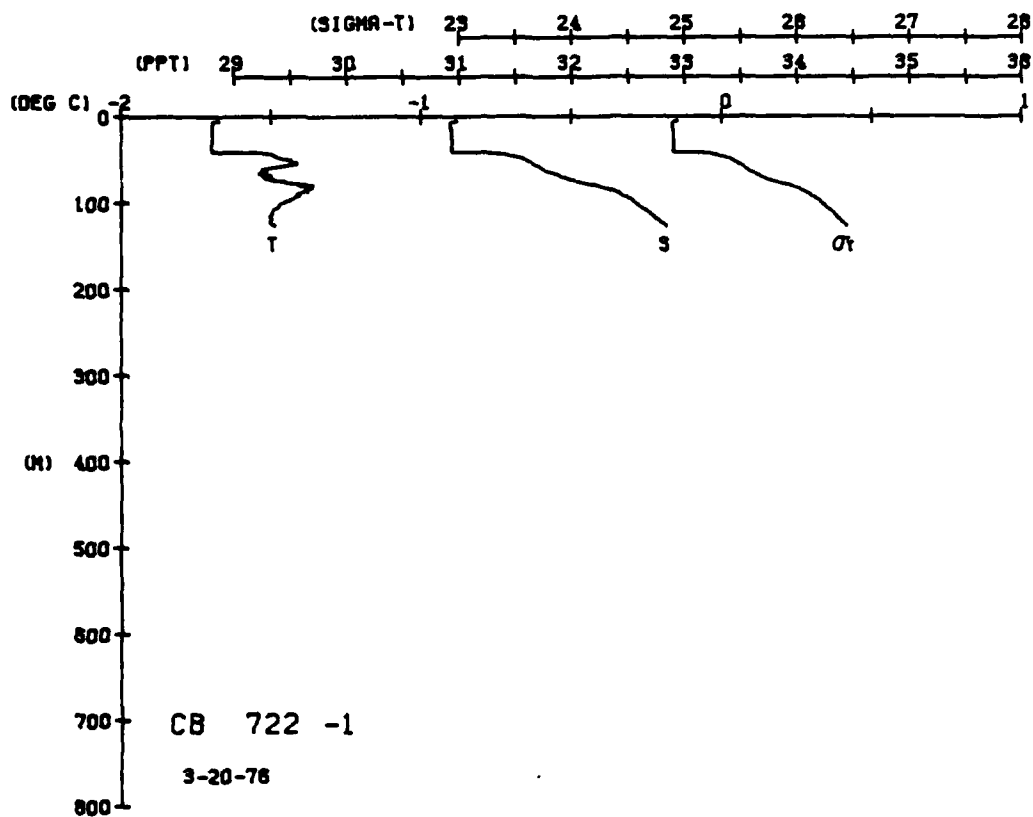
BUT NUM = 1  
BUT NUM = 2  
BUT NUM = 3

CARIBBU STATION 722(1) CTD 20/MAR/1976 1800 GMT CODE = 1  
LAT = 72.722N LMG = 144.165W LIER = 2 LGER = 4  
AIR TEMP = -31.0 WIND = 358.6 WIND = 48.5

DEPTH	TEMP	PIEMP	SALIN	SIG T	SPVUL	DYHMT	SOUND
0	1.69	1.69	31.01	24.96	300.3	0.00	9.35
5	1.69	1.69	31.01	24.96	300.3	0.01	9.35
10	1.69	1.69	31.01	24.96	300.3	0.01	9.35
15	1.69	1.69	31.01	24.96	300.3	0.01	9.35
20	1.69	1.69	31.01	24.96	300.3	0.01	9.35
25	1.69	1.69	31.01	24.96	300.3	0.01	9.35
30	1.69	1.69	31.01	24.96	300.3	0.01	9.35
35	1.69	1.69	31.01	24.96	300.3	0.01	9.35
40	1.69	1.69	31.01	24.96	300.3	0.01	9.35
45	1.69	1.69	31.01	24.96	300.3	0.01	9.35
50	1.69	1.69	31.01	24.96	300.3	0.01	9.35
55	1.69	1.69	31.01	24.96	300.3	0.01	9.35
60	1.69	1.69	31.01	24.96	300.3	0.01	9.35
65	1.69	1.69	31.01	24.96	300.3	0.01	9.35
70	1.69	1.69	31.01	24.96	300.3	0.01	9.35
75	1.69	1.69	31.01	24.96	300.3	0.01	9.35
80	1.69	1.69	31.01	24.96	300.3	0.01	9.35
85	1.69	1.69	31.01	24.96	300.3	0.01	9.35
90	1.69	1.69	31.01	24.96	300.3	0.01	9.35
95	1.69	1.69	31.01	24.96	300.3	0.01	9.35
100	1.69	1.69	31.01	24.96	300.3	0.01	9.35
105	1.69	1.69	31.01	24.96	300.3	0.01	9.35
110	1.69	1.69	31.01	24.96	300.3	0.01	9.35
115	1.69	1.69	31.01	24.96	300.3	0.01	9.35
120	1.69	1.69	31.01	24.96	300.3	0.01	9.35

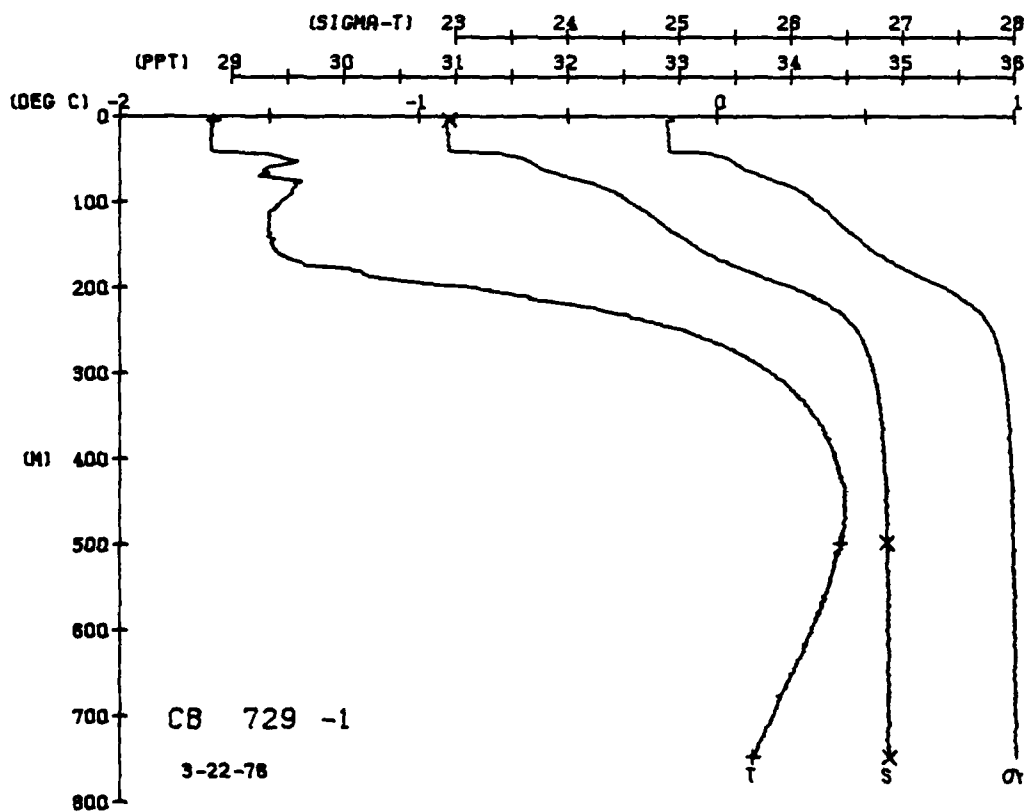
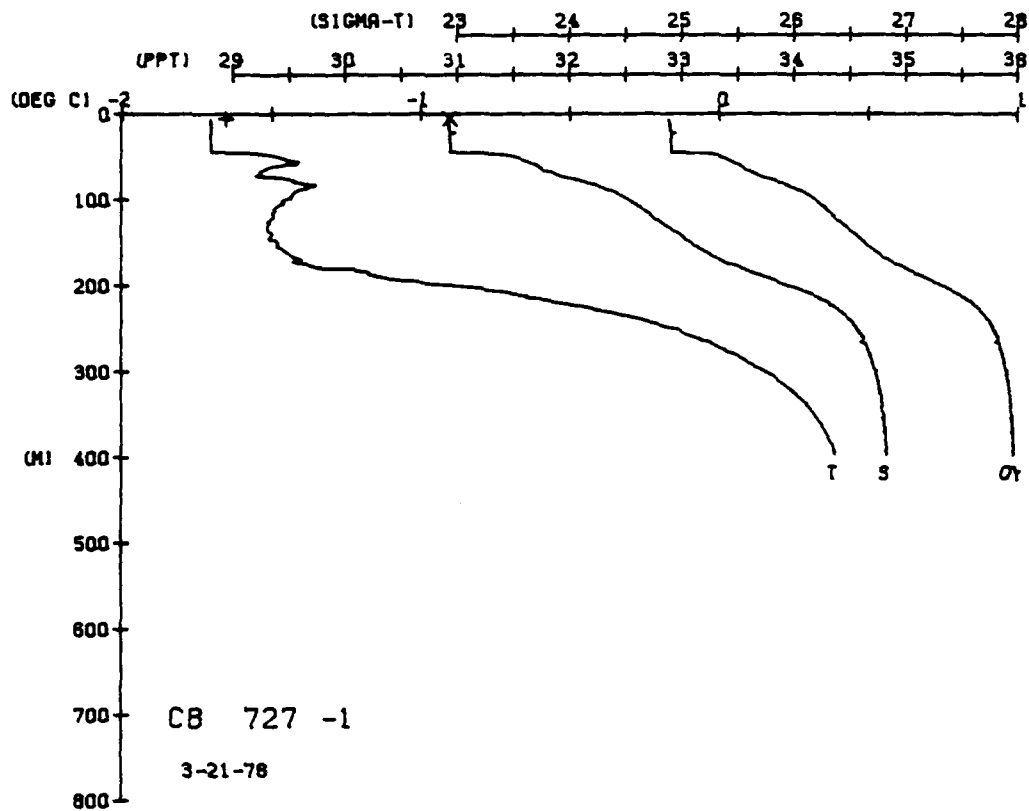
DEPTH TEMP. SALIN

BUT NUM = 1  
BUT NUM = 2  
BUT NUM = 3

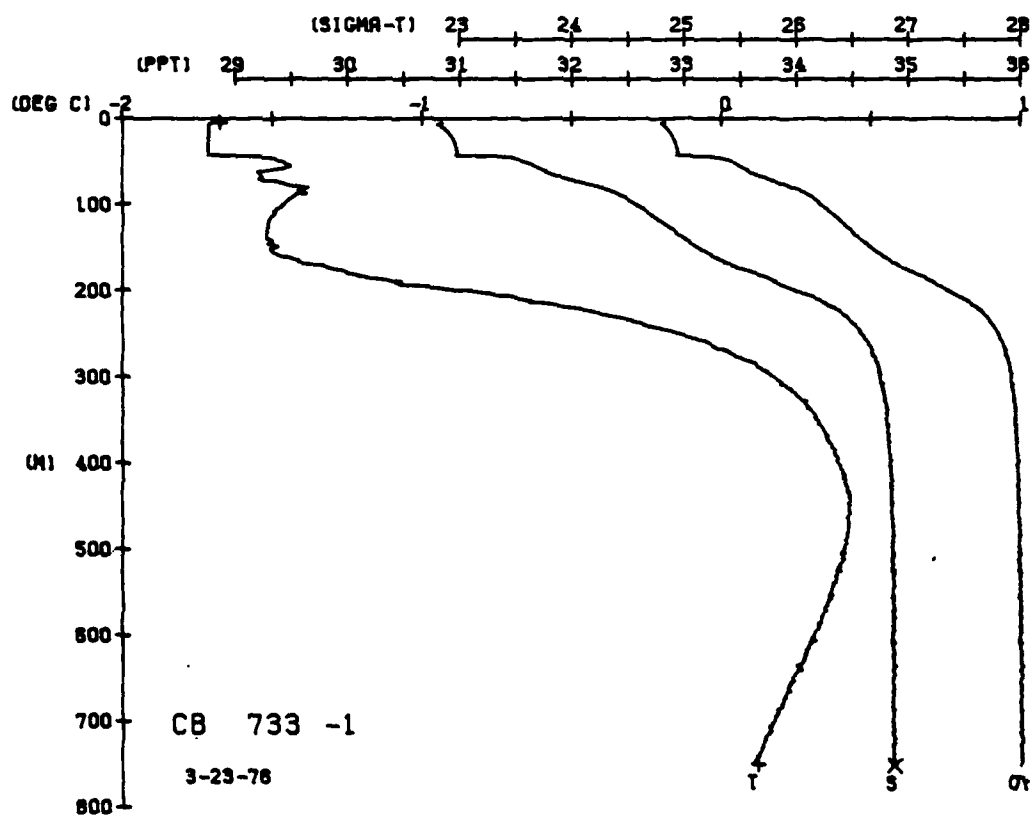
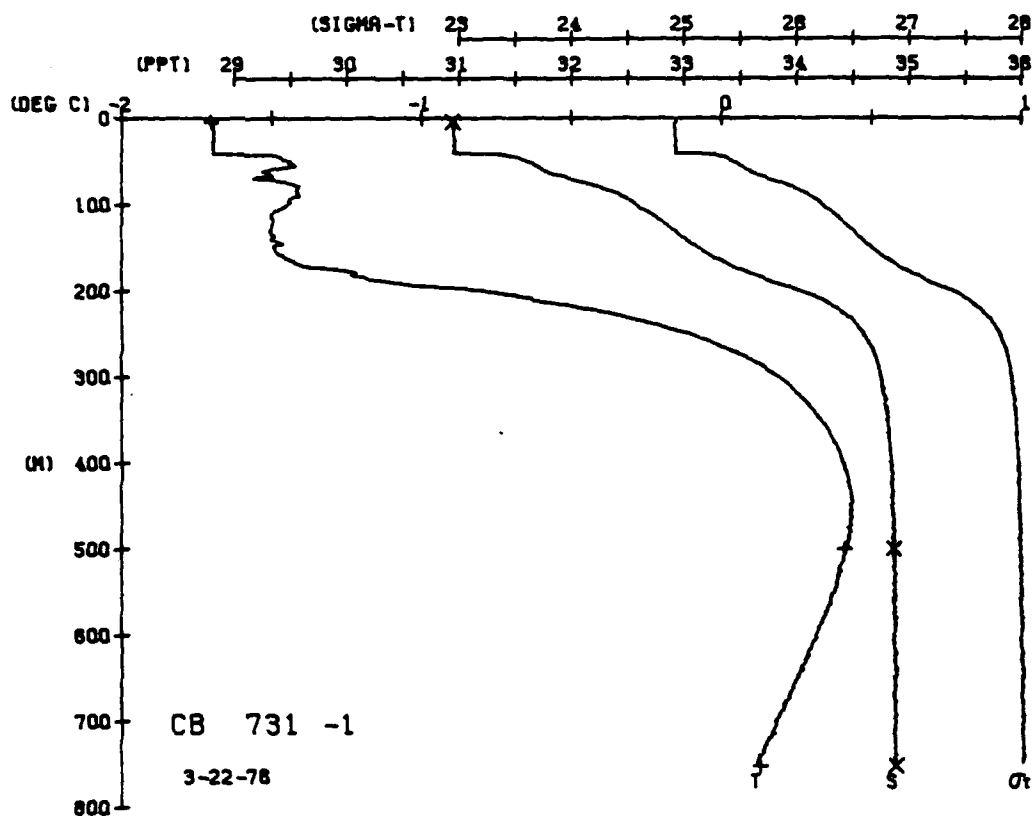




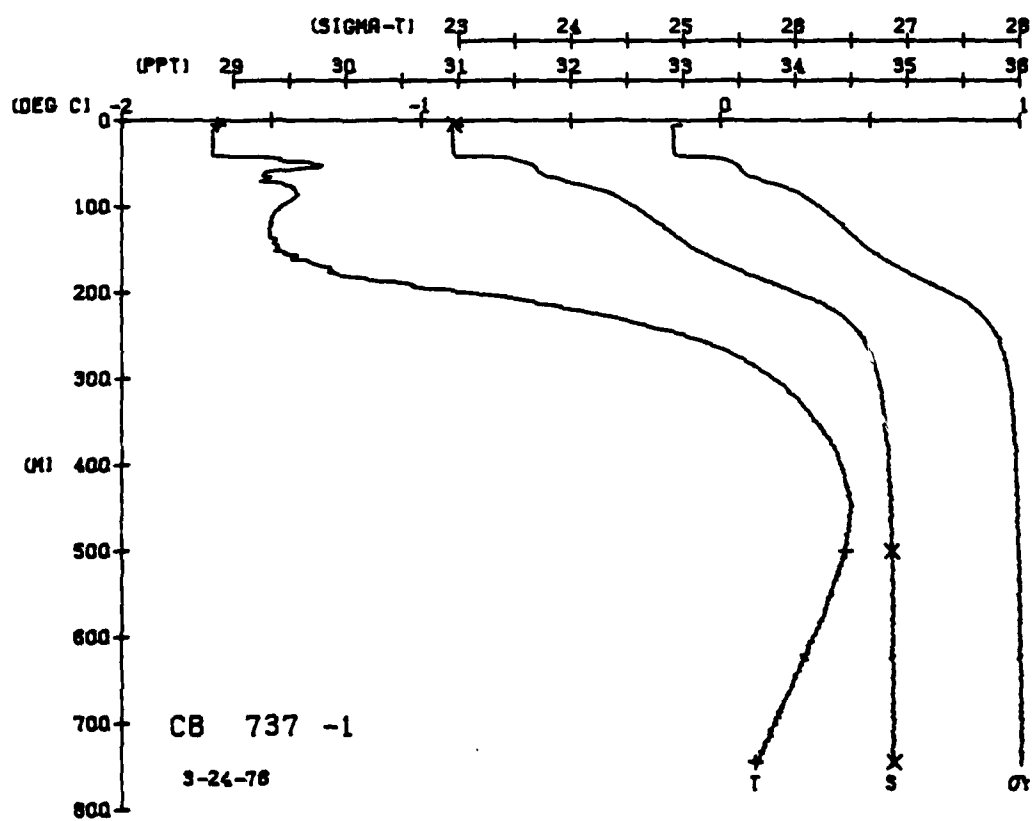
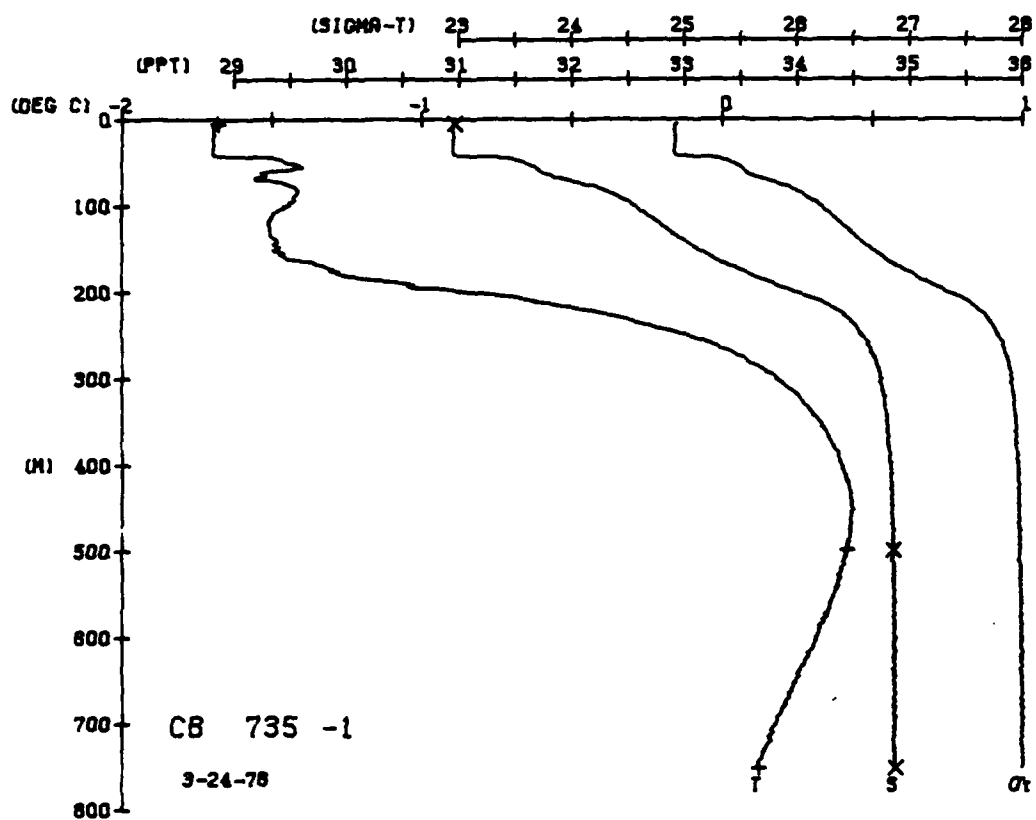




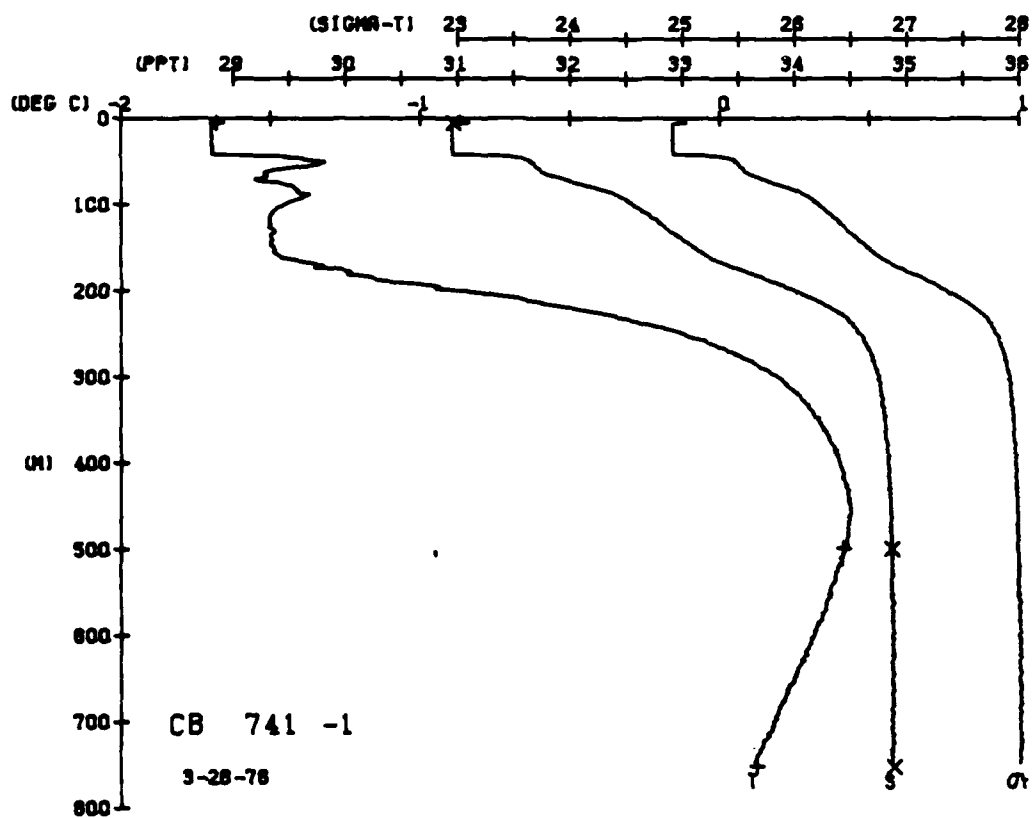
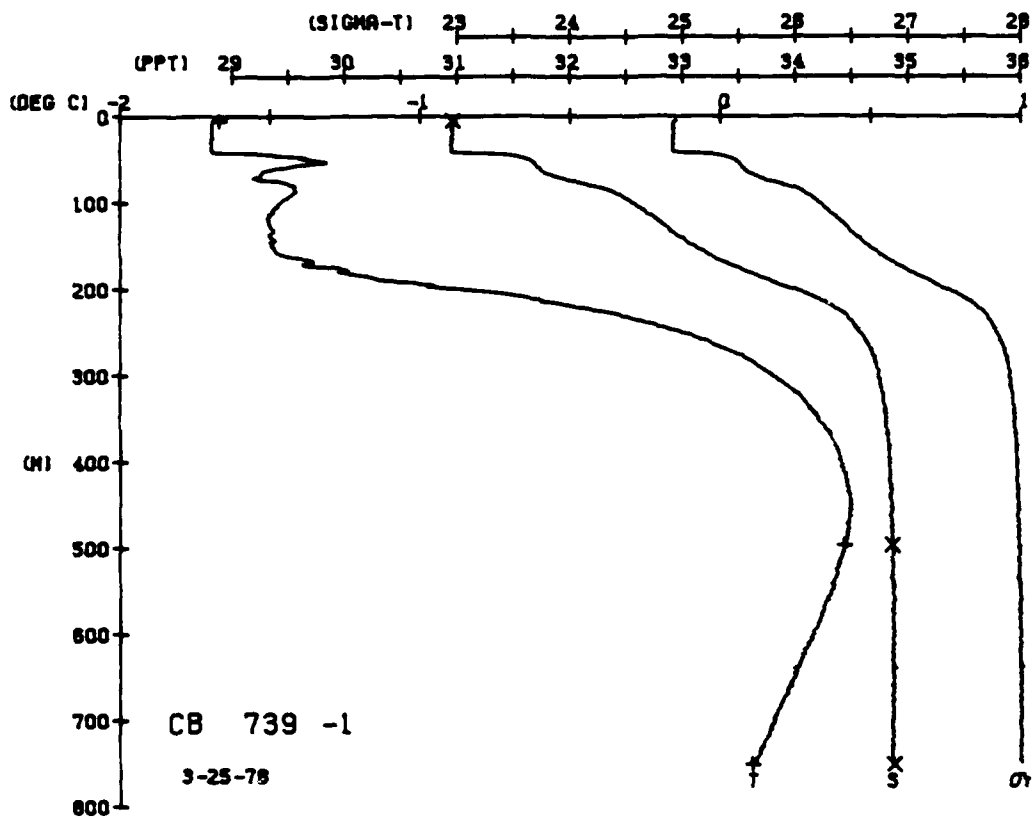






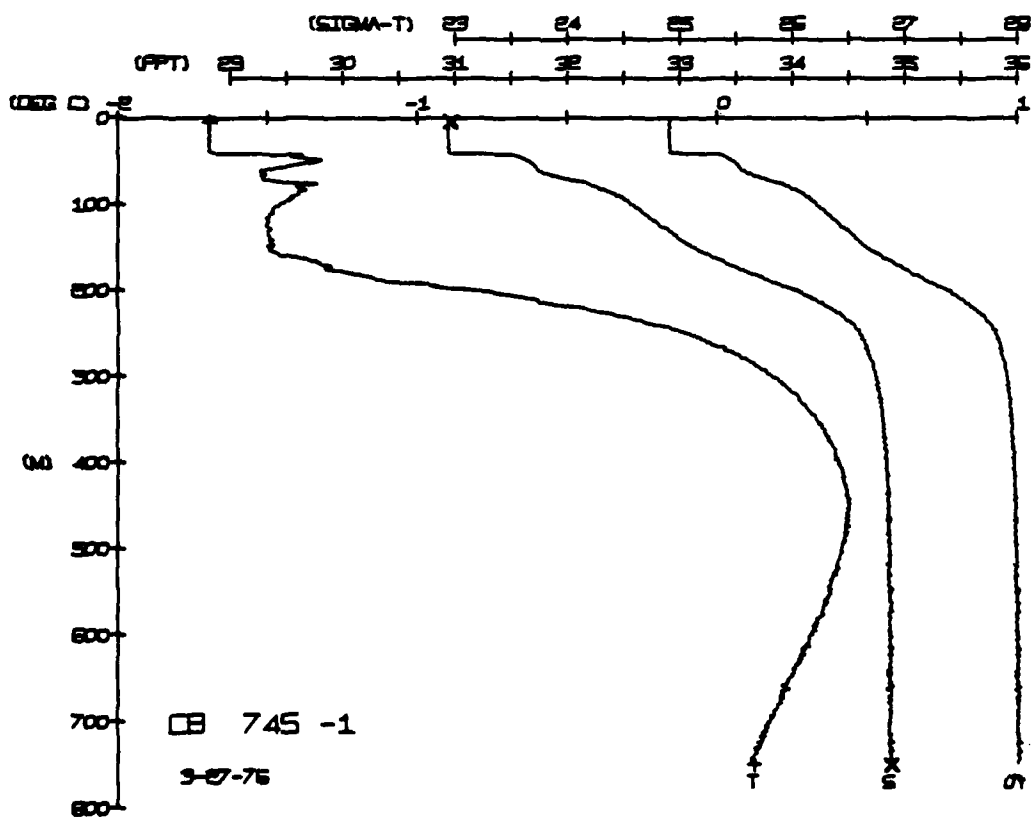
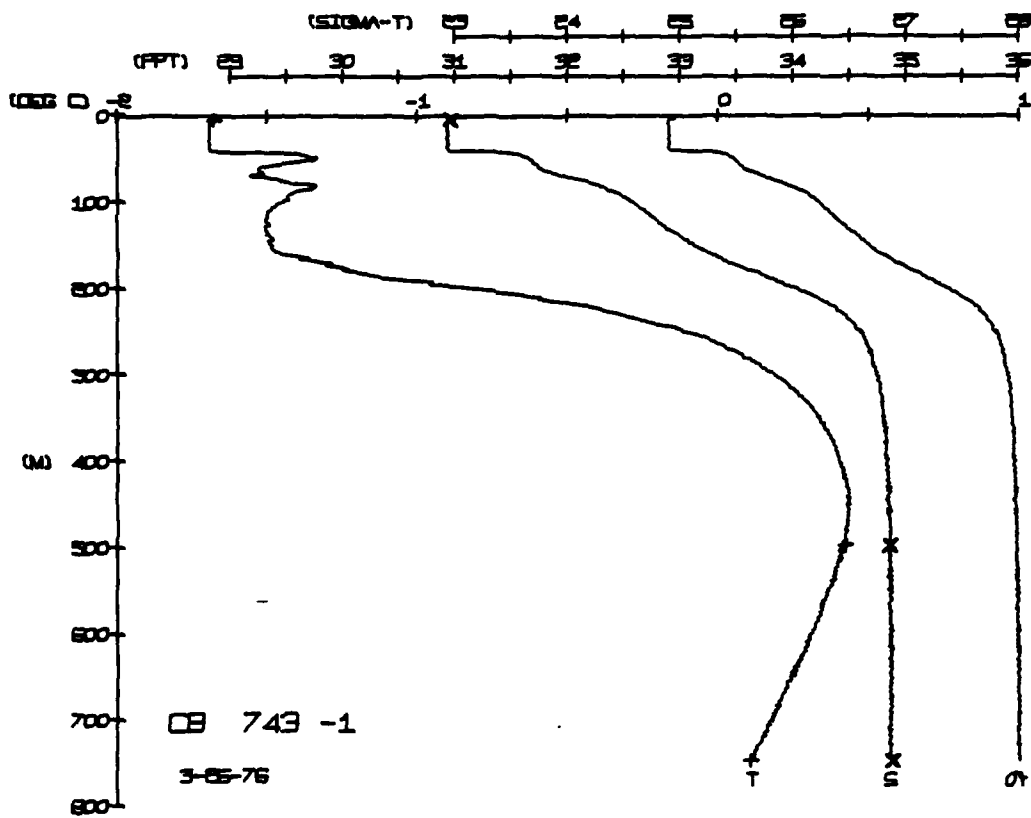




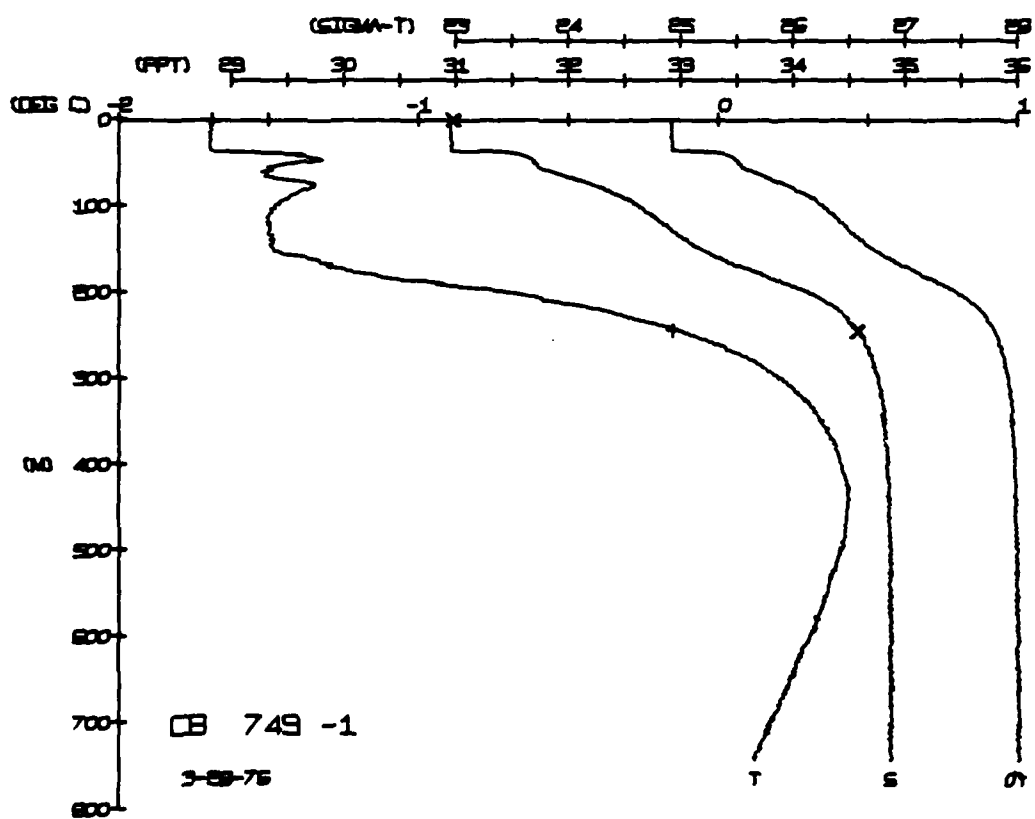
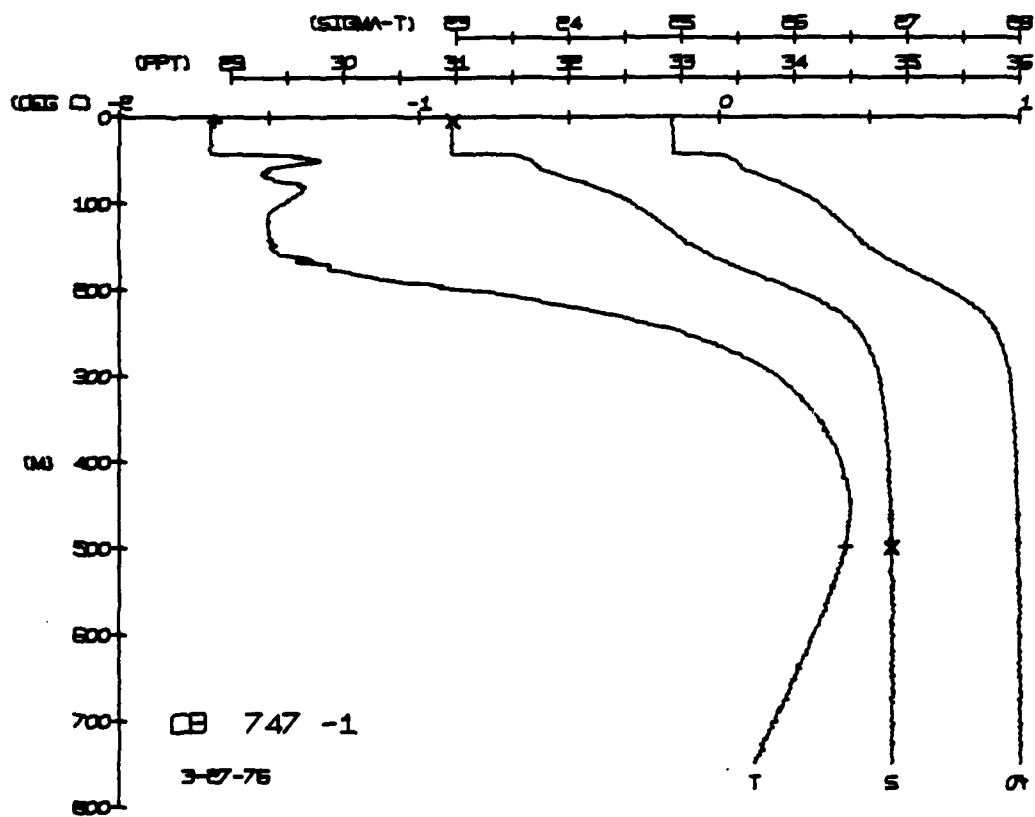




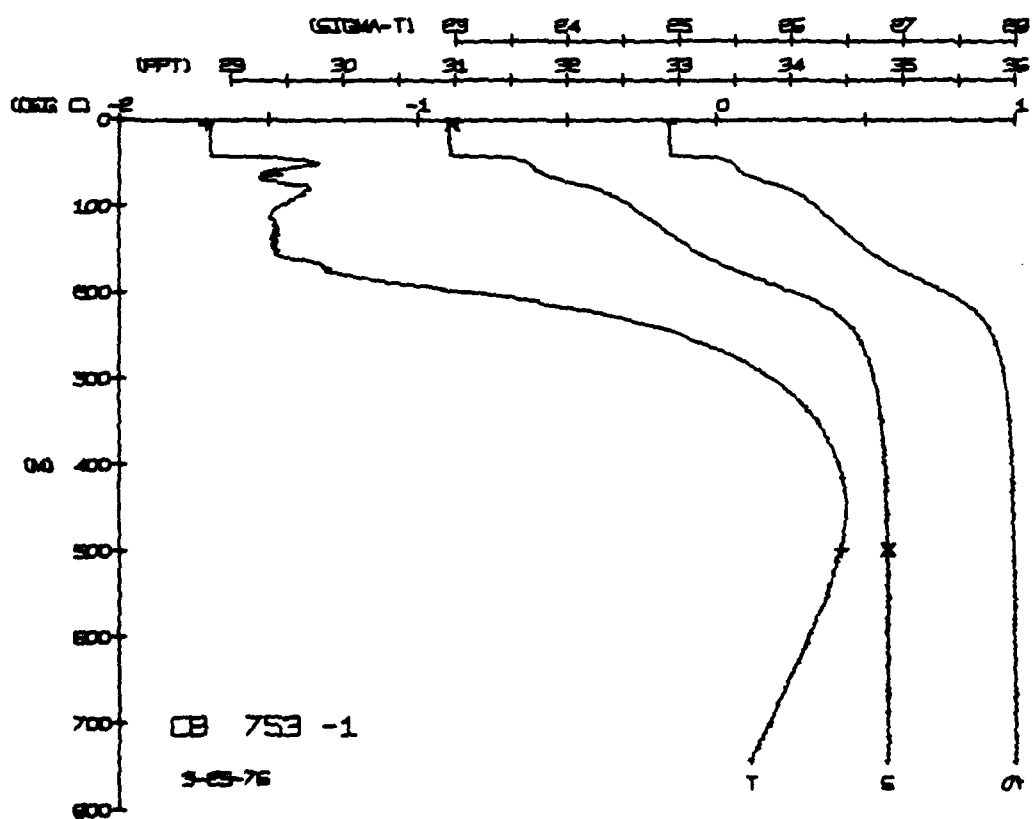
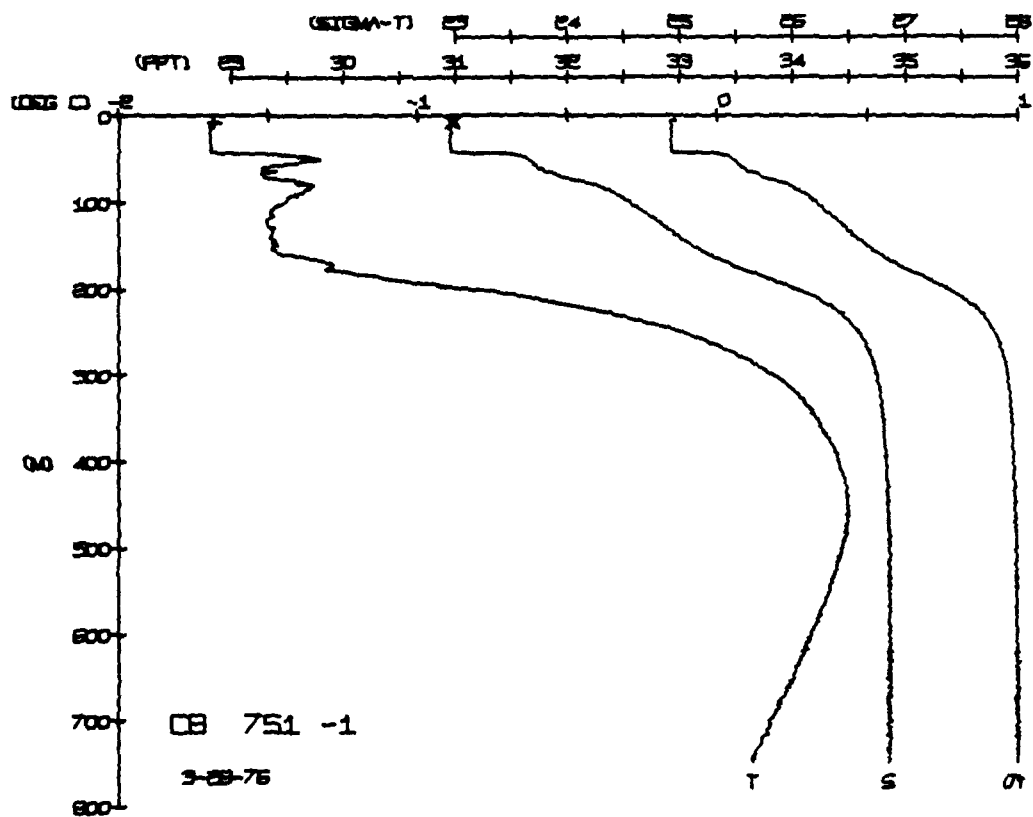




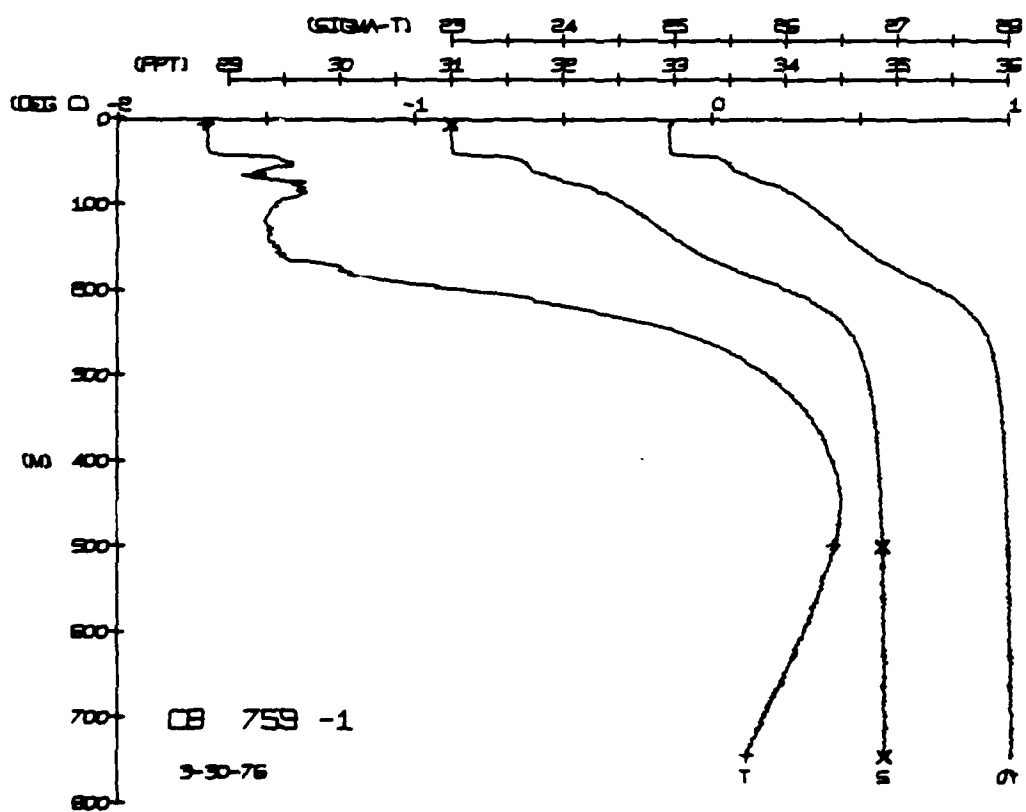
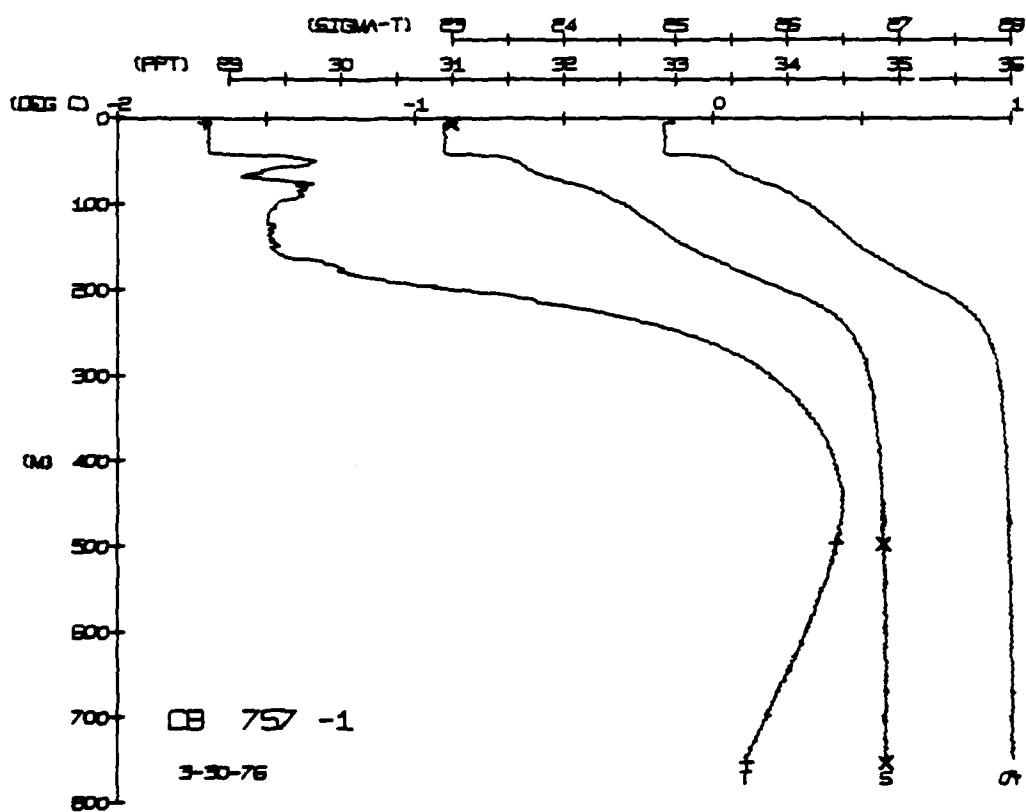






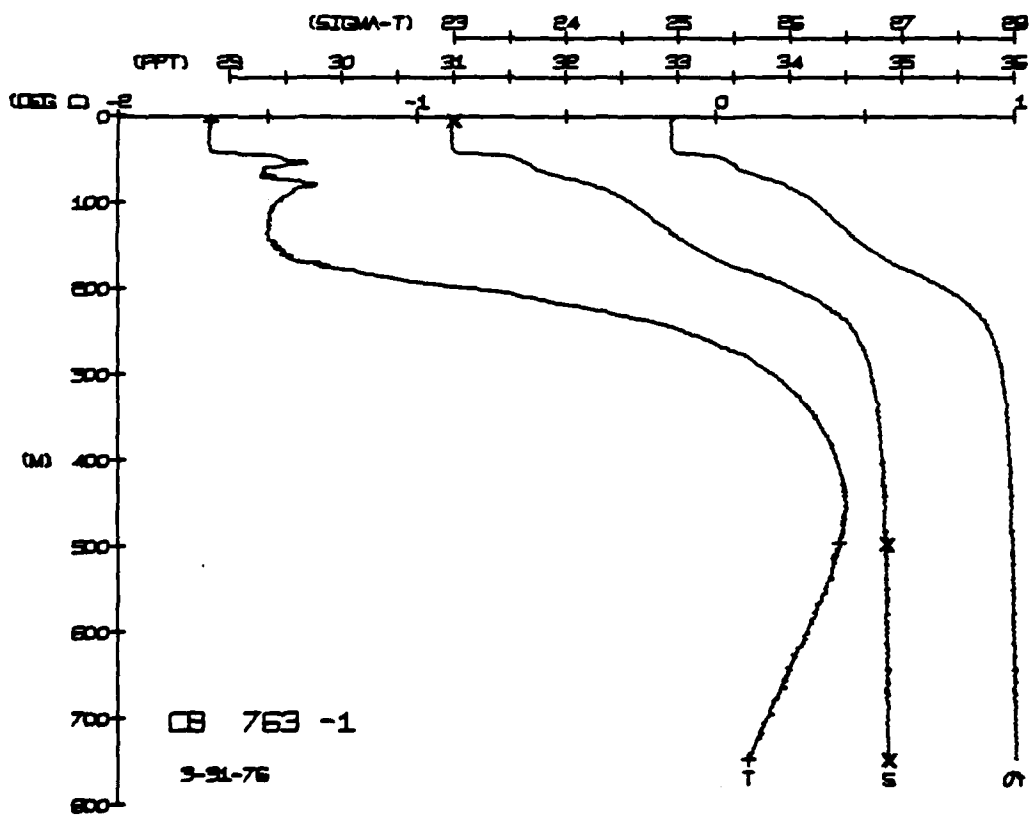
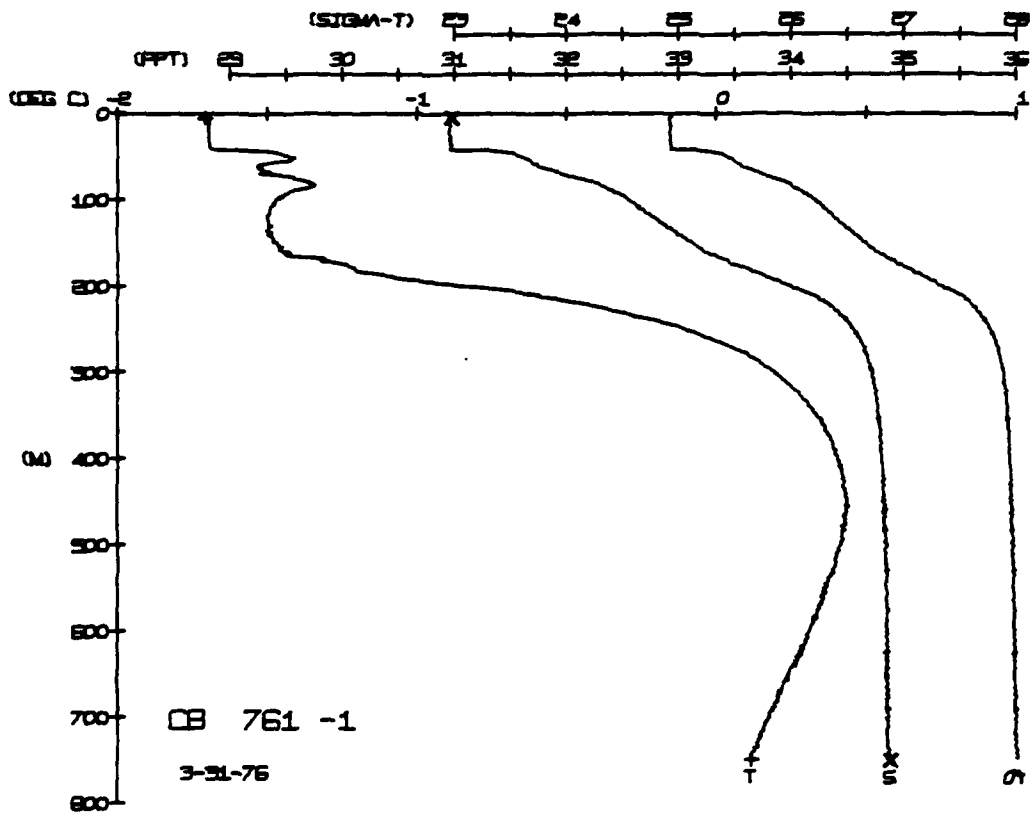




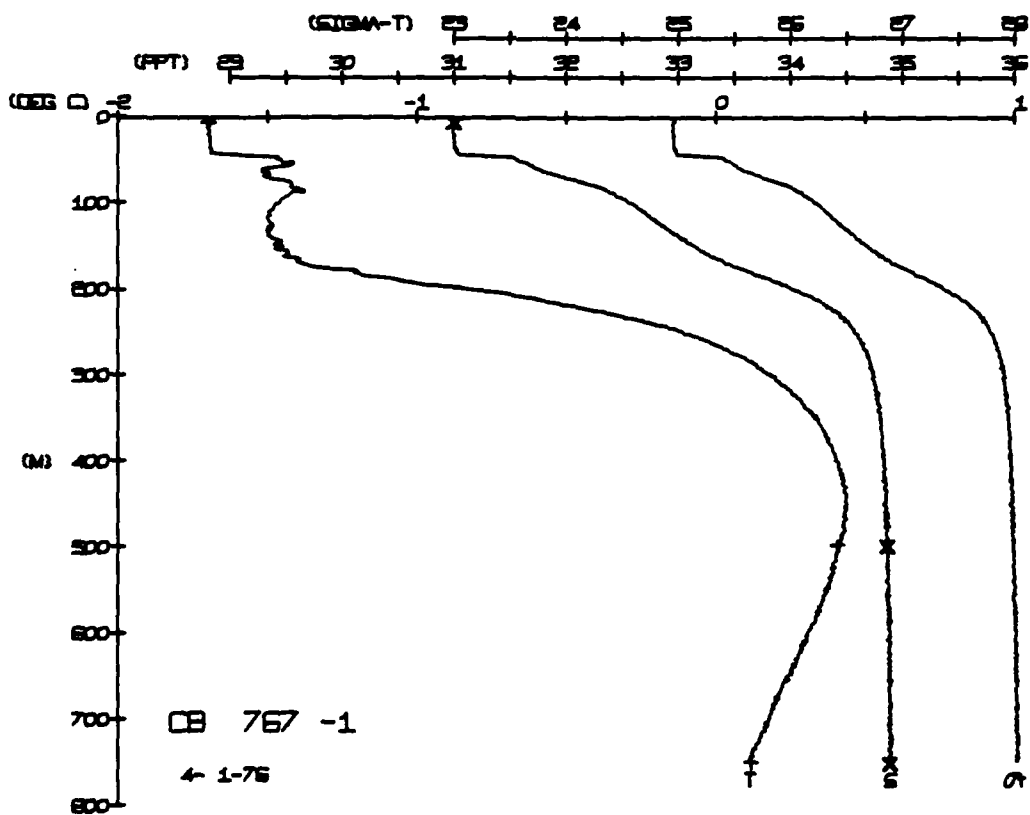
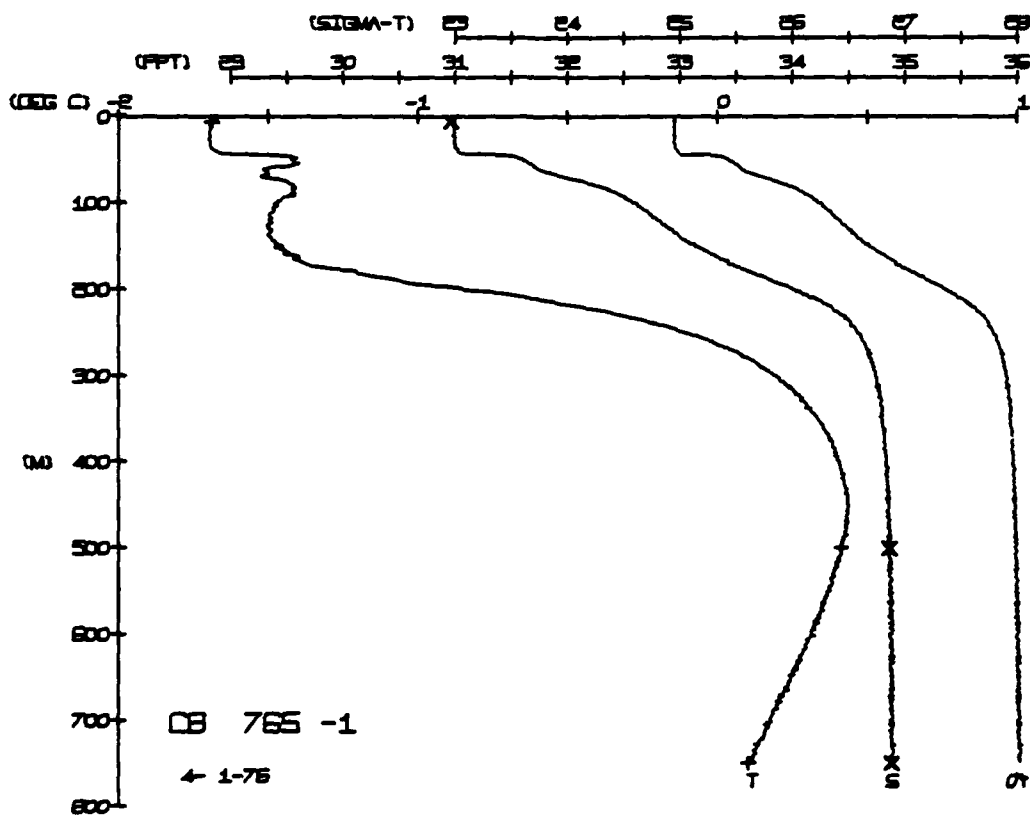




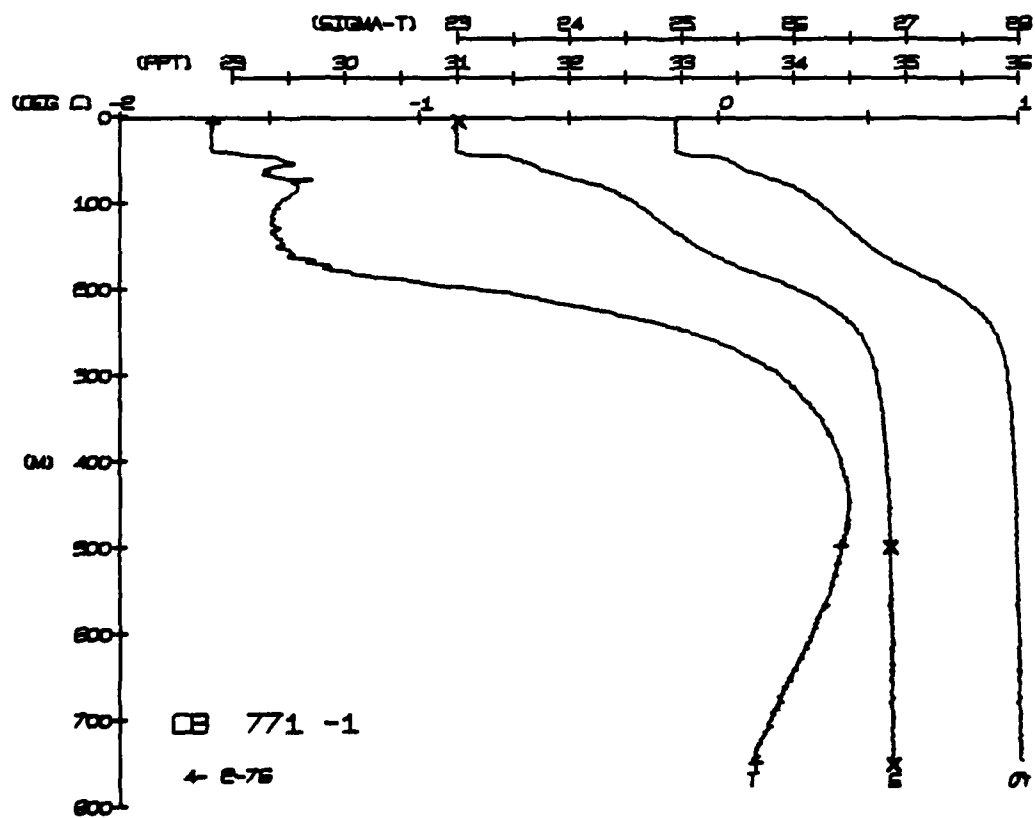
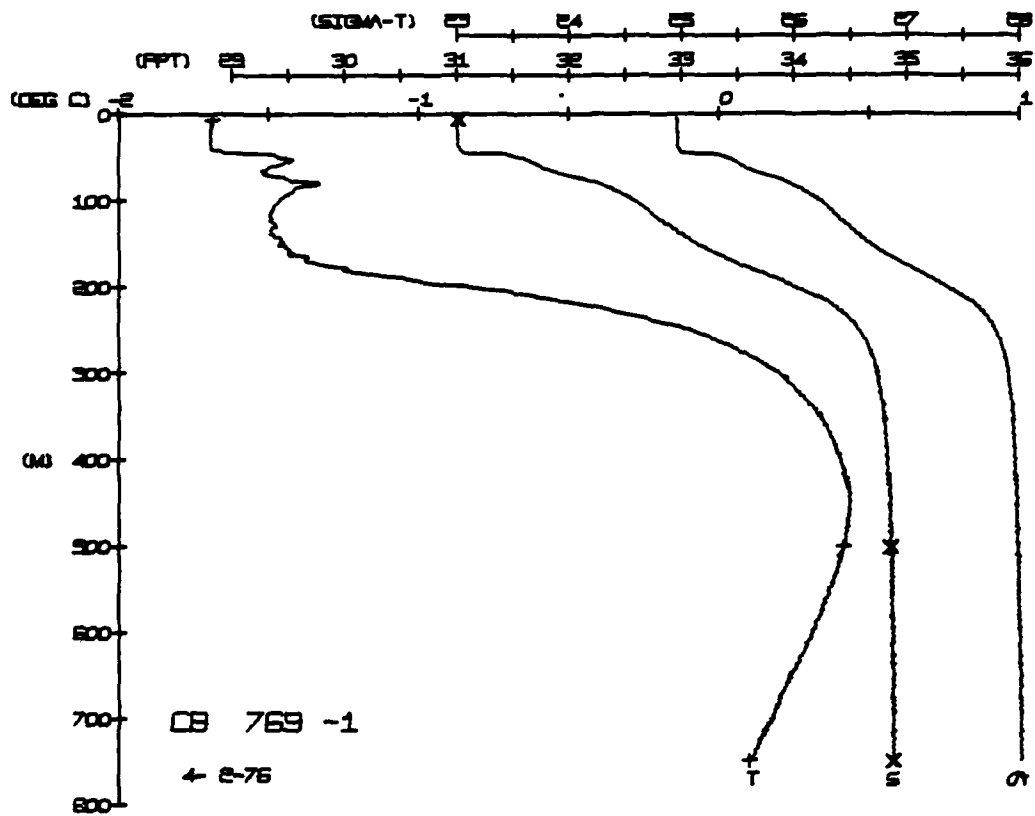




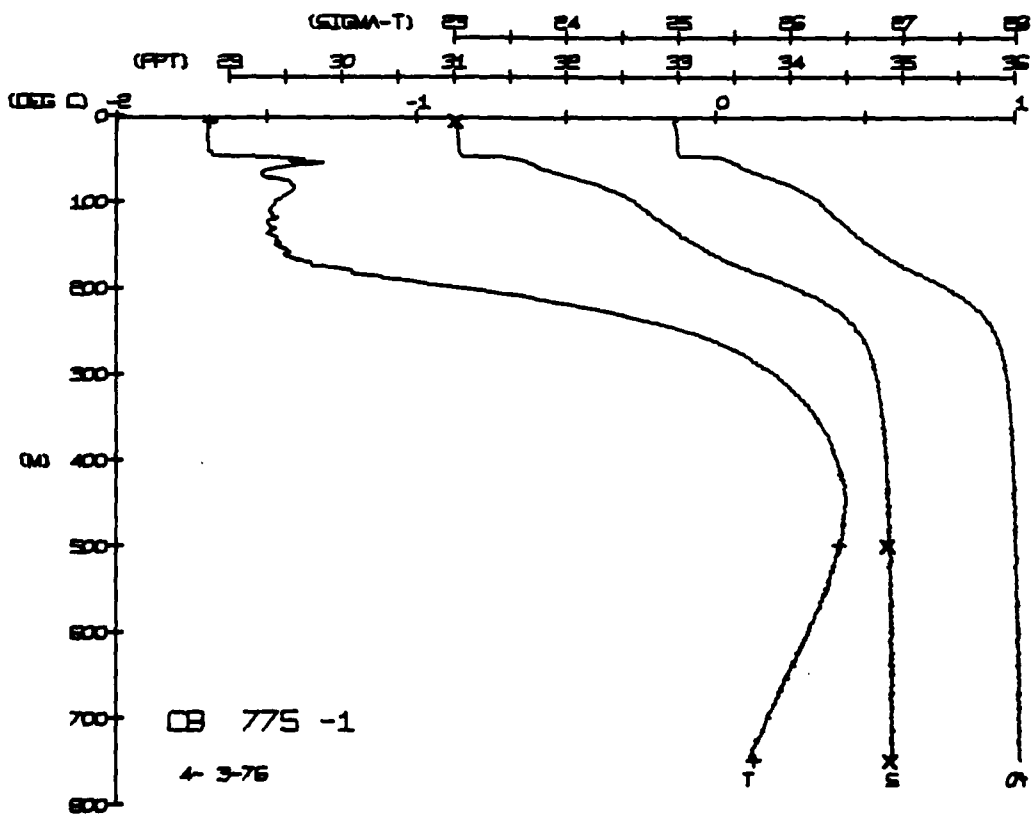
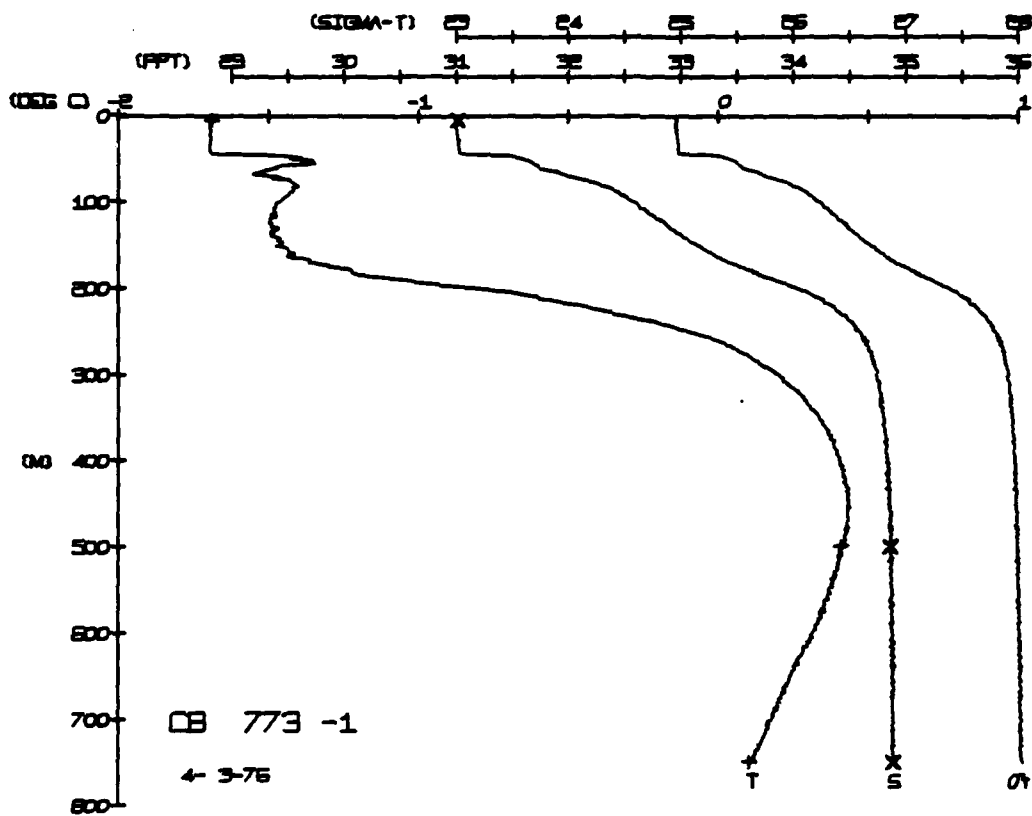














CARIBU STATION 777(1) CTD 4/APR/1976 600 GMT CODE = 1  
 LAT = 72.7229N LONG = 144.1606W LTER = 0 LGER = 0  
 AIR TEMP = -30.5 BAROM = 1010.6 WIND = 48.1 SPEED = 48.4

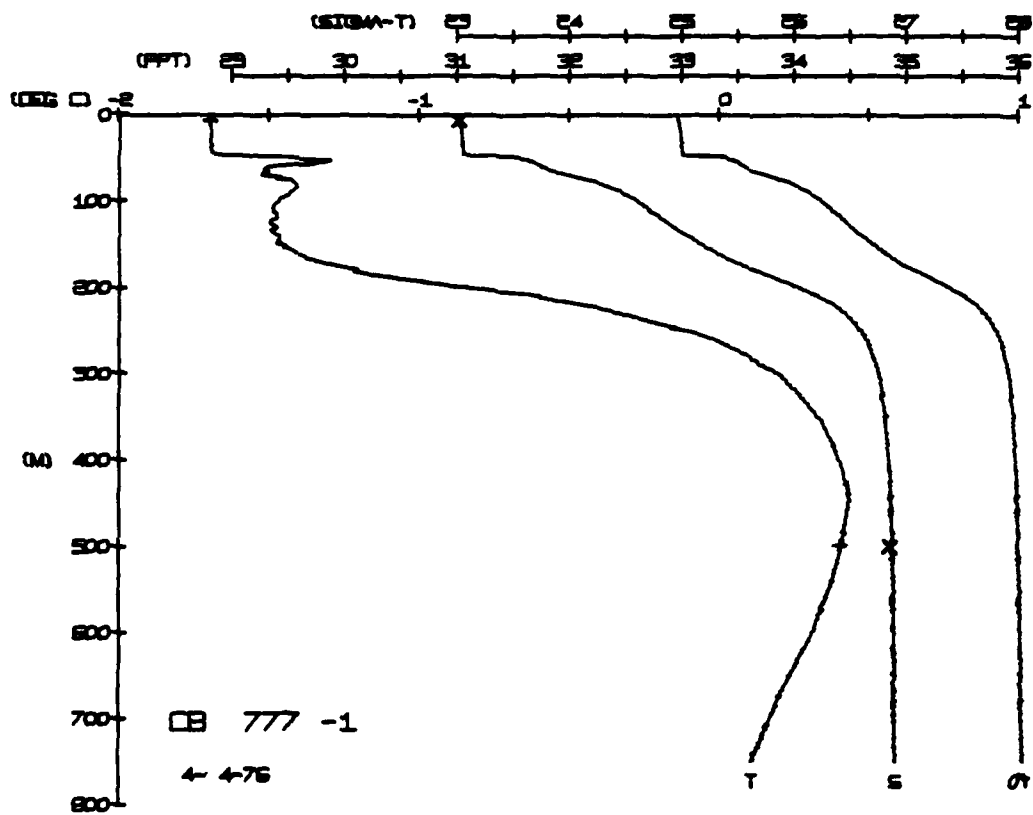
DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0.9	1.70	1.70	00	96	300.5	00	1435.8
5.9	1.70	1.70	00	96	300.5	00	1435.8
19.0	1.70	1.70	00	96	300.5	00	1435.8
23.0	1.70	1.70	00	96	300.5	00	1435.8
35.0	1.70	1.70	00	96	300.5	00	1435.8
45.0	1.70	1.70	00	96	300.5	00	1435.8
55.0	1.70	1.70	00	96	300.5	00	1435.8
65.0	1.70	1.70	00	96	300.5	00	1435.8
75.0	1.70	1.70	00	96	300.5	00	1435.8
85.0	1.70	1.70	00	96	300.5	00	1435.8
95.0	1.70	1.70	00	96	300.5	00	1435.8
105.0	1.70	1.70	00	96	300.5	00	1435.8
115.0	1.70	1.70	00	96	300.5	00	1435.8
125.0	1.70	1.70	00	96	300.5	00	1435.8
135.0	1.70	1.70	00	96	300.5	00	1435.8
145.0	1.70	1.70	00	96	300.5	00	1435.8
155.0	1.70	1.70	00	96	300.5	00	1435.8
165.0	1.70	1.70	00	96	300.5	00	1435.8
175.0	1.70	1.70	00	96	300.5	00	1435.8
185.0	1.70	1.70	00	96	300.5	00	1435.8
195.0	1.70	1.70	00	96	300.5	00	1435.8
205.0	1.70	1.70	00	96	300.5	00	1435.8
215.0	1.70	1.70	00	96	300.5	00	1435.8
225.0	1.70	1.70	00	96	300.5	00	1435.8
235.0	1.70	1.70	00	96	300.5	00	1435.8
245.0	1.70	1.70	00	96	300.5	00	1435.8
255.0	1.70	1.70	00	96	300.5	00	1435.8
265.0	1.70	1.70	00	96	300.5	00	1435.8
275.0	1.70	1.70	00	96	300.5	00	1435.8
285.0	1.70	1.70	00	96	300.5	00	1435.8
295.0	1.70	1.70	00	96	300.5	00	1435.8
305.0	1.70	1.70	00	96	300.5	00	1435.8
315.0	1.70	1.70	00	96	300.5	00	1435.8
325.0	1.70	1.70	00	96	300.5	00	1435.8
335.0	1.70	1.70	00	96	300.5	00	1435.8
345.0	1.70	1.70	00	96	300.5	00	1435.8
355.0	1.70	1.70	00	96	300.5	00	1435.8
365.0	1.70	1.70	00	96	300.5	00	1435.8
375.0	1.70	1.70	00	96	300.5	00	1435.8
385.0	1.70	1.70	00	96	300.5	00	1435.8
395.0	1.70	1.70	00	96	300.5	00	1435.8
405.0	1.70	1.70	00	96	300.5	00	1435.8
415.0	1.70	1.70	00	96	300.5	00	1435.8
425.0	1.70	1.70	00	96	300.5	00	1435.8
435.0	1.70	1.70	00	96	300.5	00	1435.8
445.0	1.70	1.70	00	96	300.5	00	1435.8
455.0	1.70	1.70	00	96	300.5	00	1435.8
465.0	1.70	1.70	00	96	300.5	00	1435.8
475.0	1.70	1.70	00	96	300.5	00	1435.8
485.0	1.70	1.70	00	96	300.5	00	1435.8
495.0	1.70	1.70	00	96	300.5	00	1435.8
505.0	1.70	1.70	00	96	300.5	00	1435.8
515.0	1.70	1.70	00	96	300.5	00	1435.8
525.0	1.70	1.70	00	96	300.5	00	1435.8
535.0	1.70	1.70	00	96	300.5	00	1435.8
545.0	1.70	1.70	00	96	300.5	00	1435.8
555.0	1.70	1.70	00	96	300.5	00	1435.8
565.0	1.70	1.70	00	96	300.5	00	1435.8
575.0	1.70	1.70	00	96	300.5	00	1435.8
585.0	1.70	1.70	00	96	300.5	00	1435.8
595.0	1.70	1.70	00	96	300.5	00	1435.8
605.0	1.70	1.70	00	96	300.5	00	1435.8
615.0	1.70	1.70	00	96	300.5	00	1435.8
625.0	1.70	1.70	00	96	300.5	00	1435.8
635.0	1.70	1.70	00	96	300.5	00	1435.8
645.0	1.70	1.70	00	96	300.5	00	1435.8
655.0	1.70	1.70	00	96	300.5	00	1435.8
665.0	1.70	1.70	00	96	300.5	00	1435.8
675.0	1.70	1.70	00	96	300.5	00	1435.8
685.0	1.70	1.70	00	96	300.5	00	1435.8
695.0	1.70	1.70	00	96	300.5	00	1435.8
705.0	1.70	1.70	00	96	300.5	00	1435.8
715.0	1.70	1.70	00	96	300.5	00	1435.8
725.0	1.70	1.70	00	96	300.5	00	1435.8
735.0	1.70	1.70	00	96	300.5	00	1435.8
745.0	1.70	1.70	00	96	300.5	00	1435.8

BUT NUM = 1  
 BUT NUM = 2

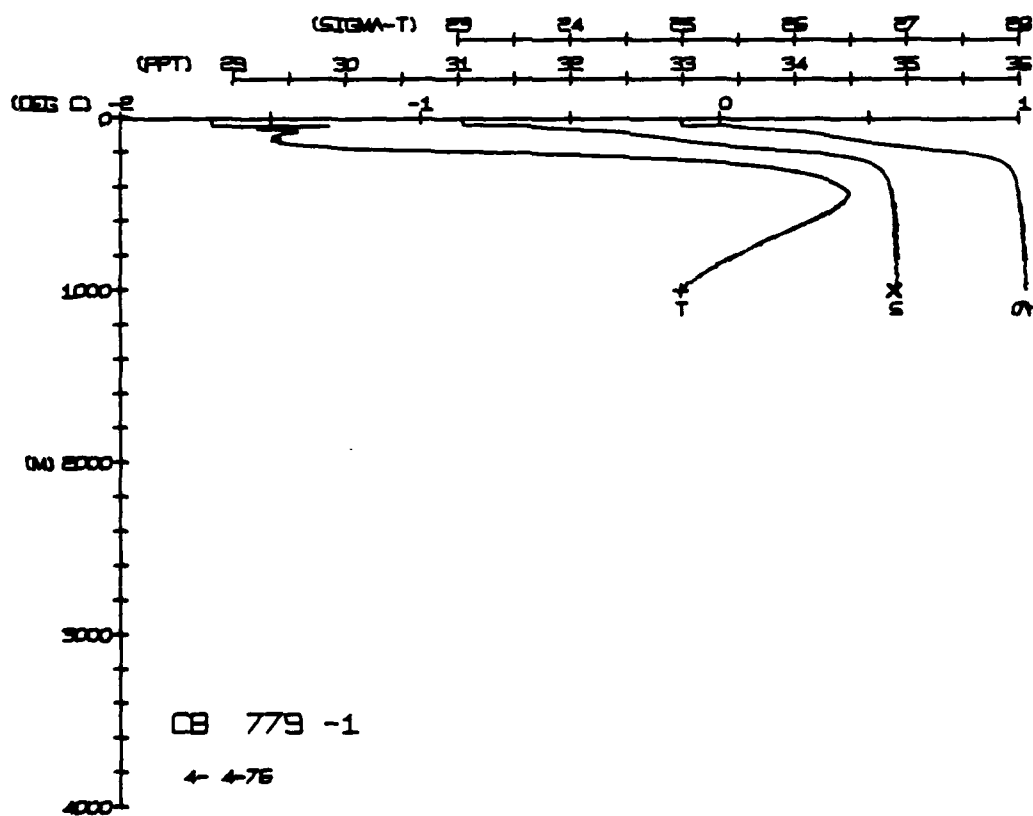
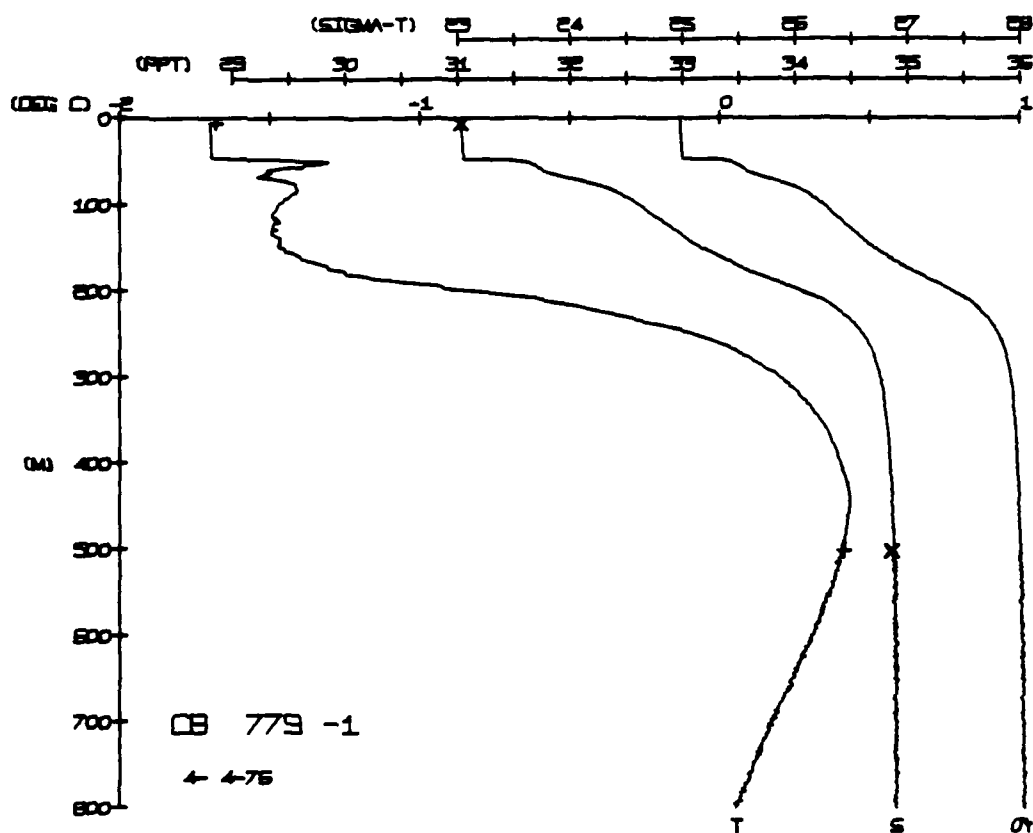
SALIN 31.01  
 34.81

TEMP. -1.10  
 0.41

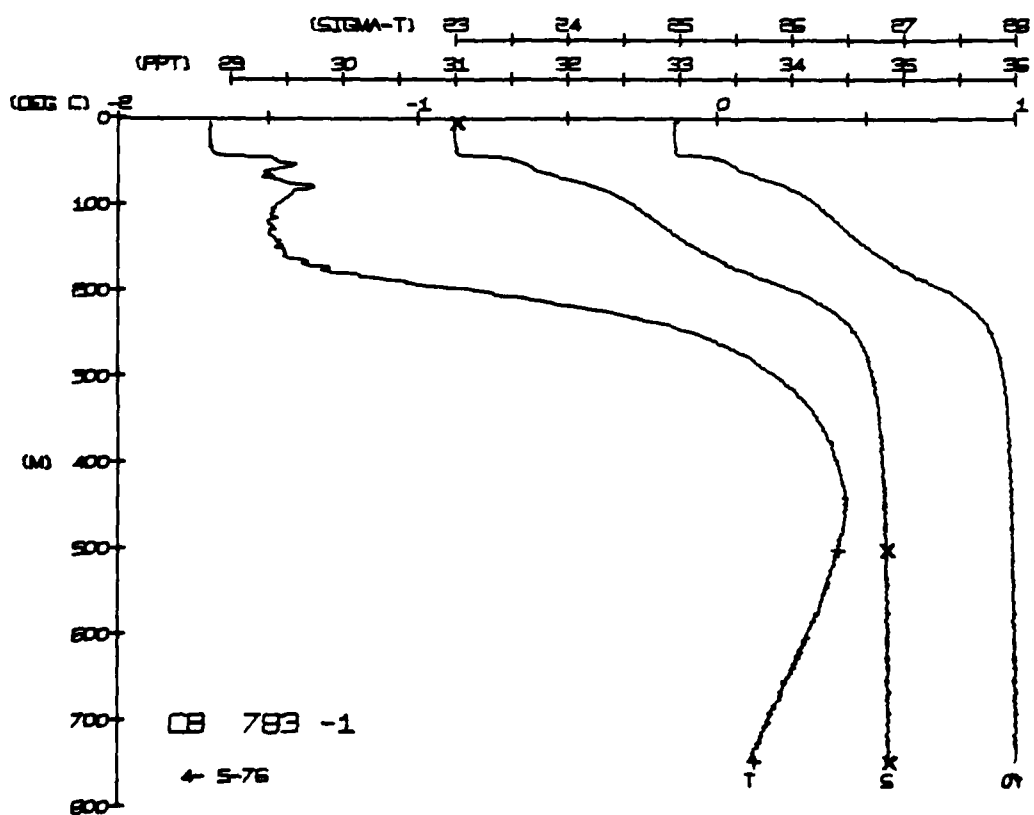
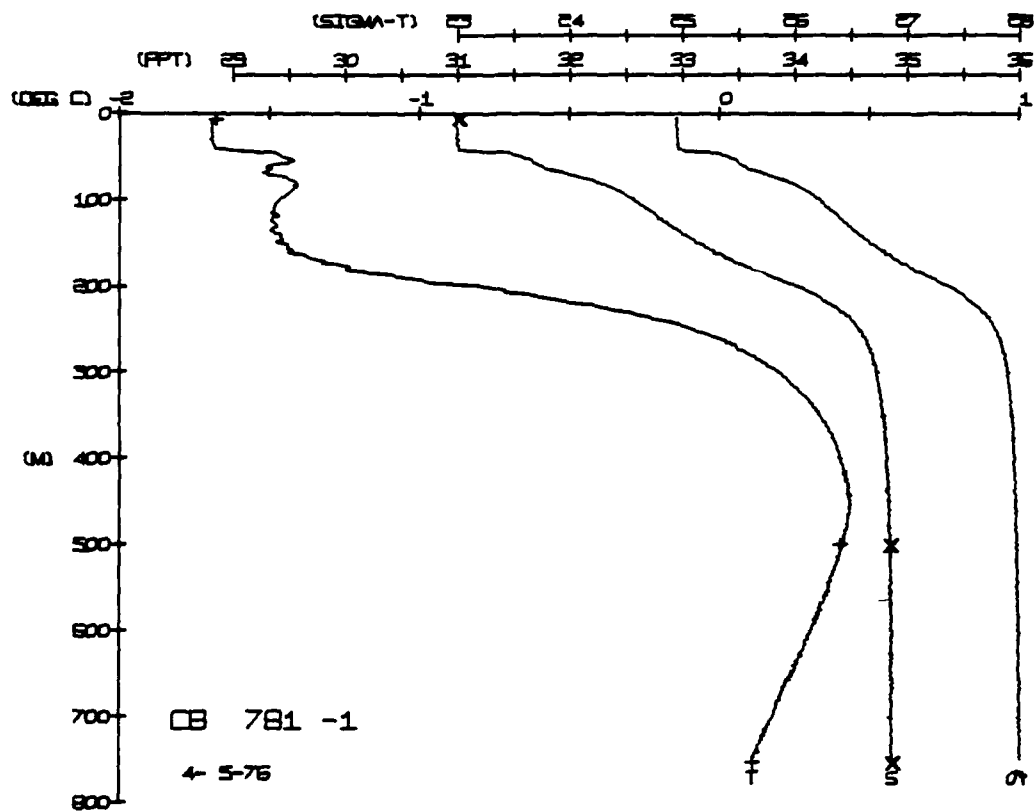
DEPTH 5.7  
 498.4



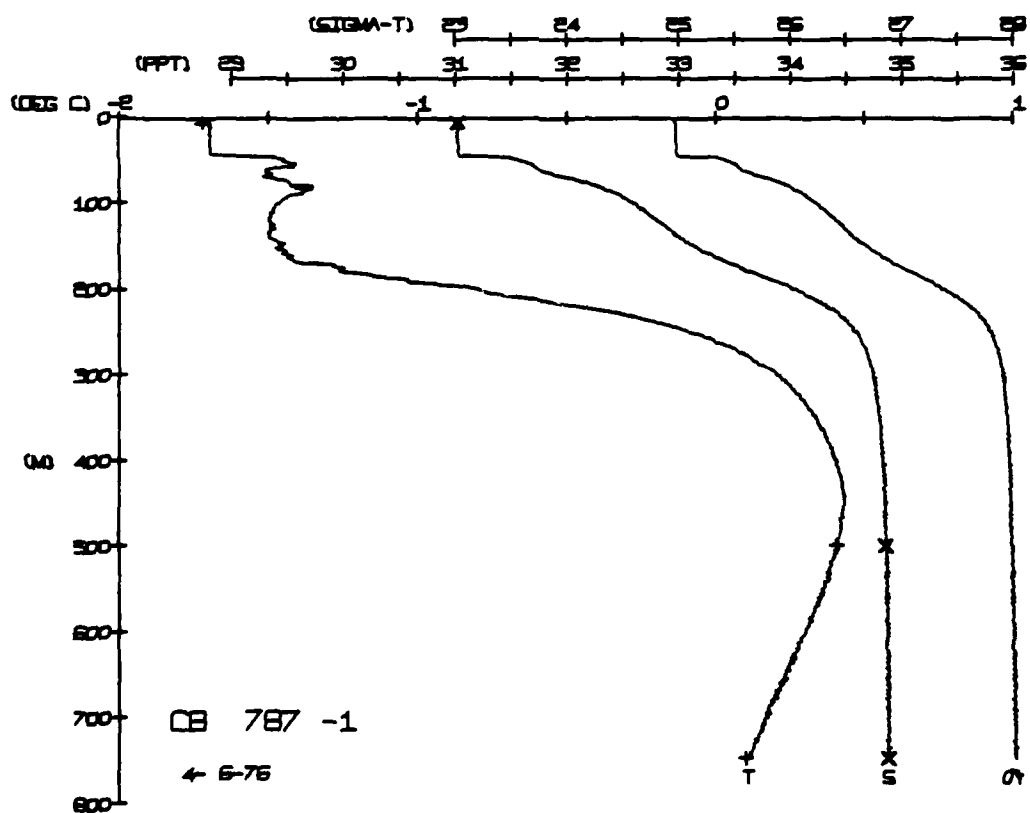
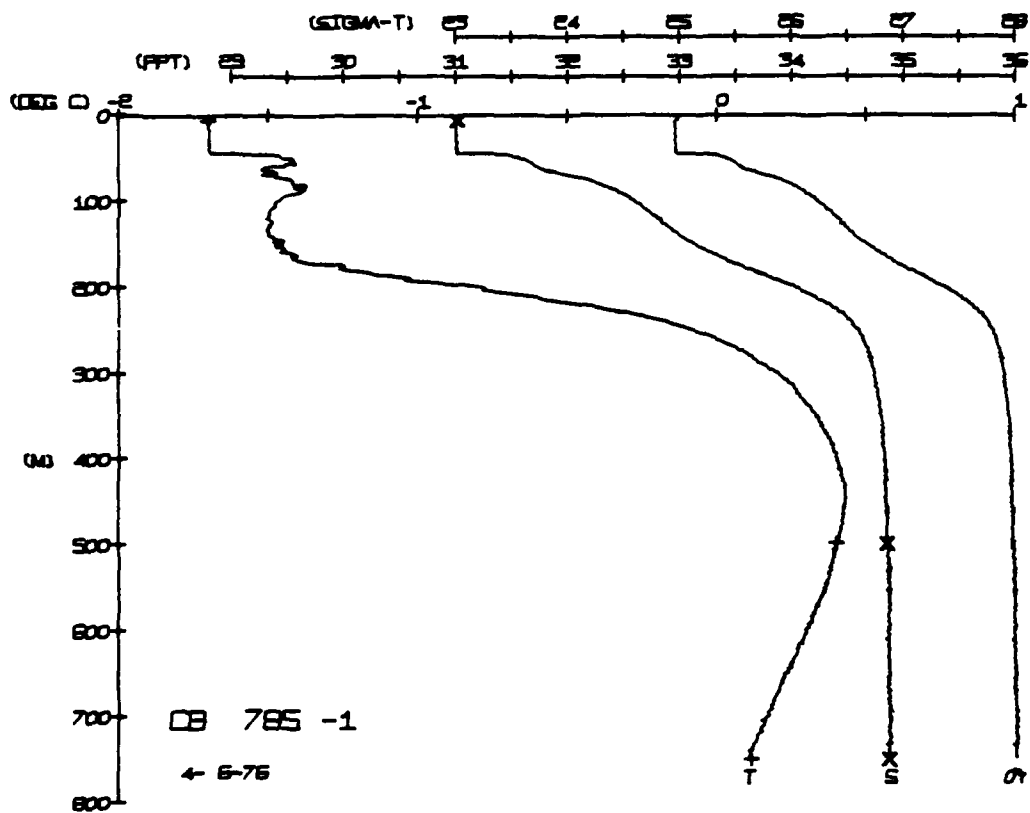






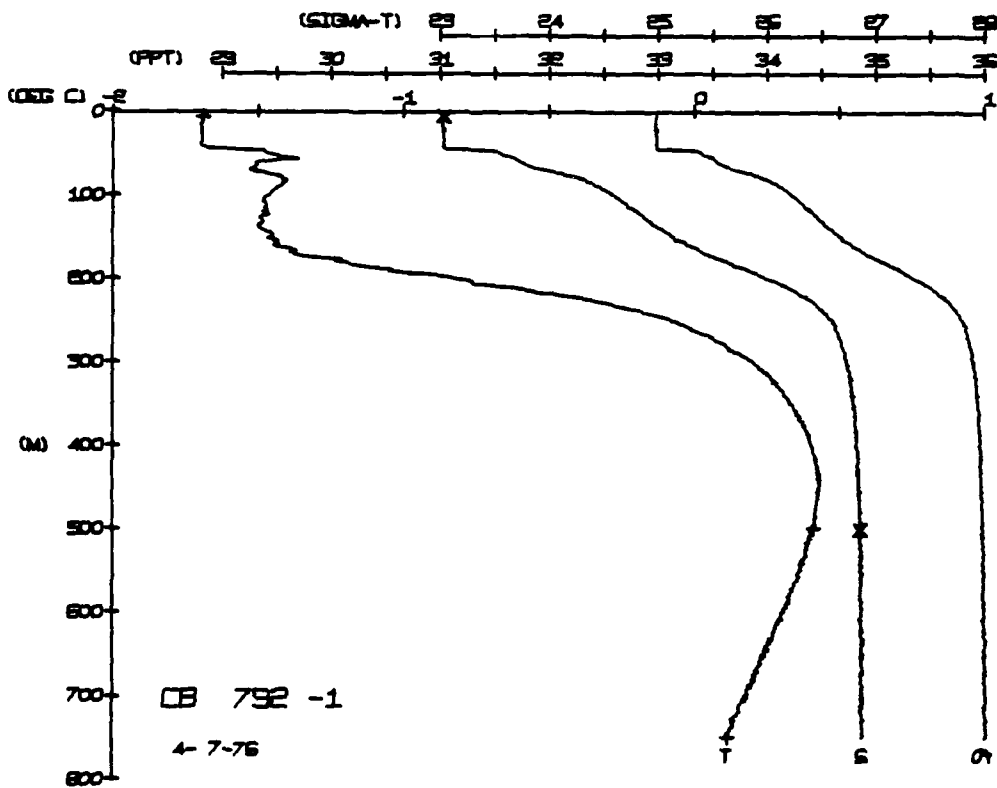
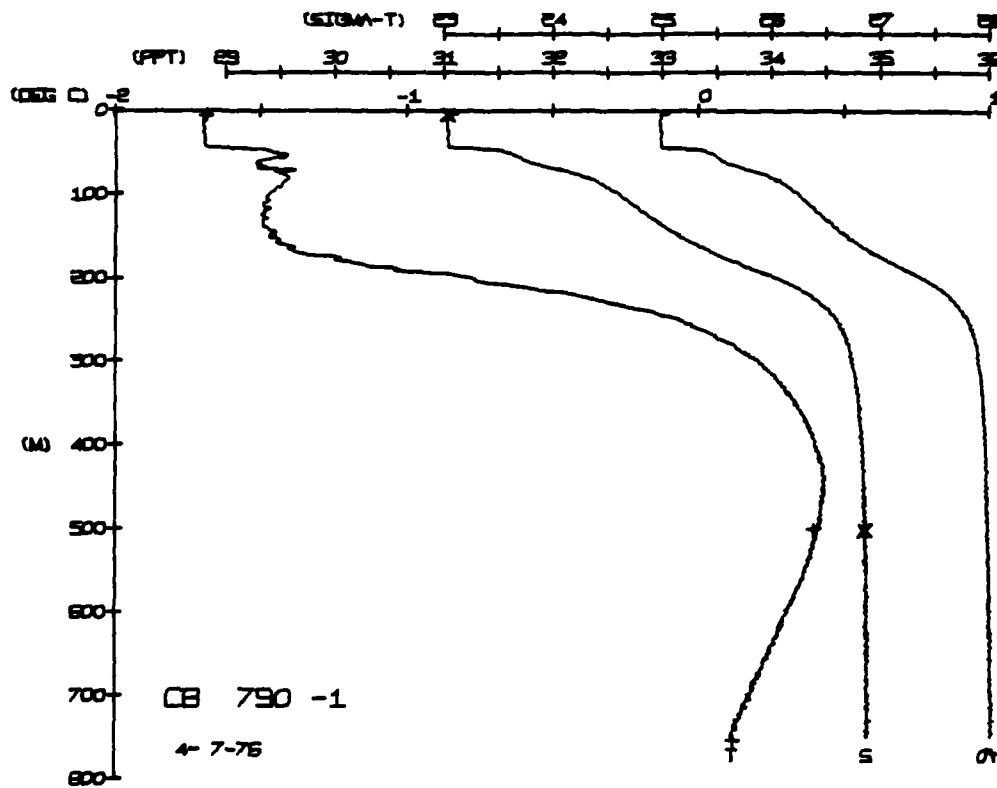








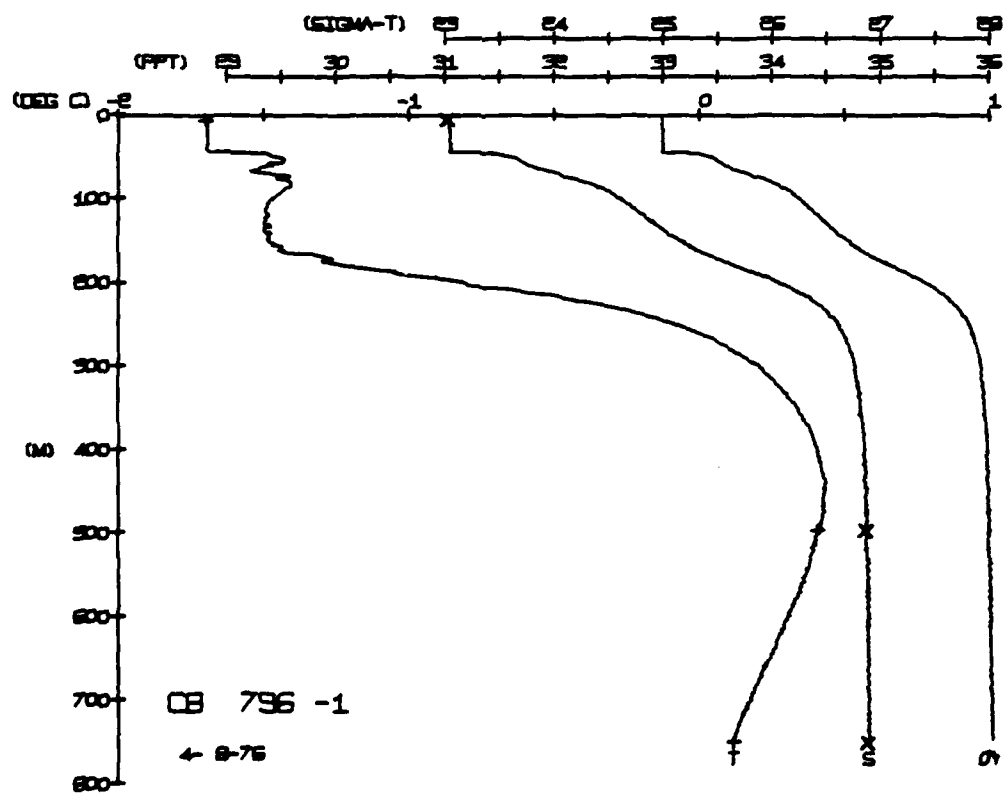
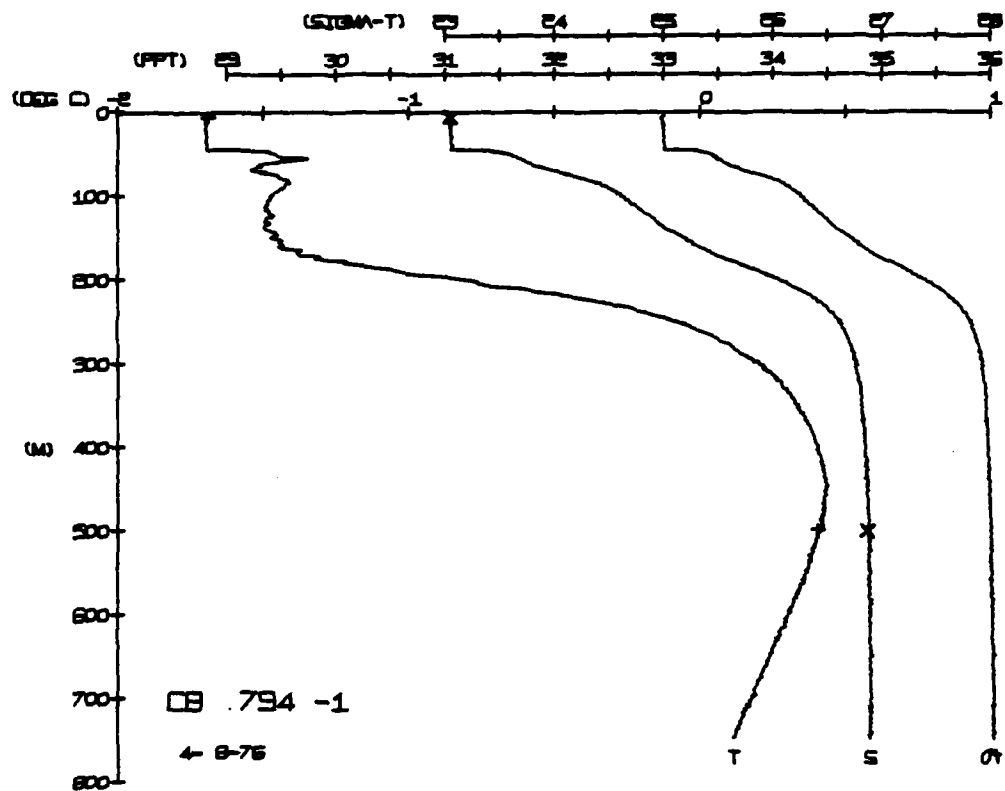




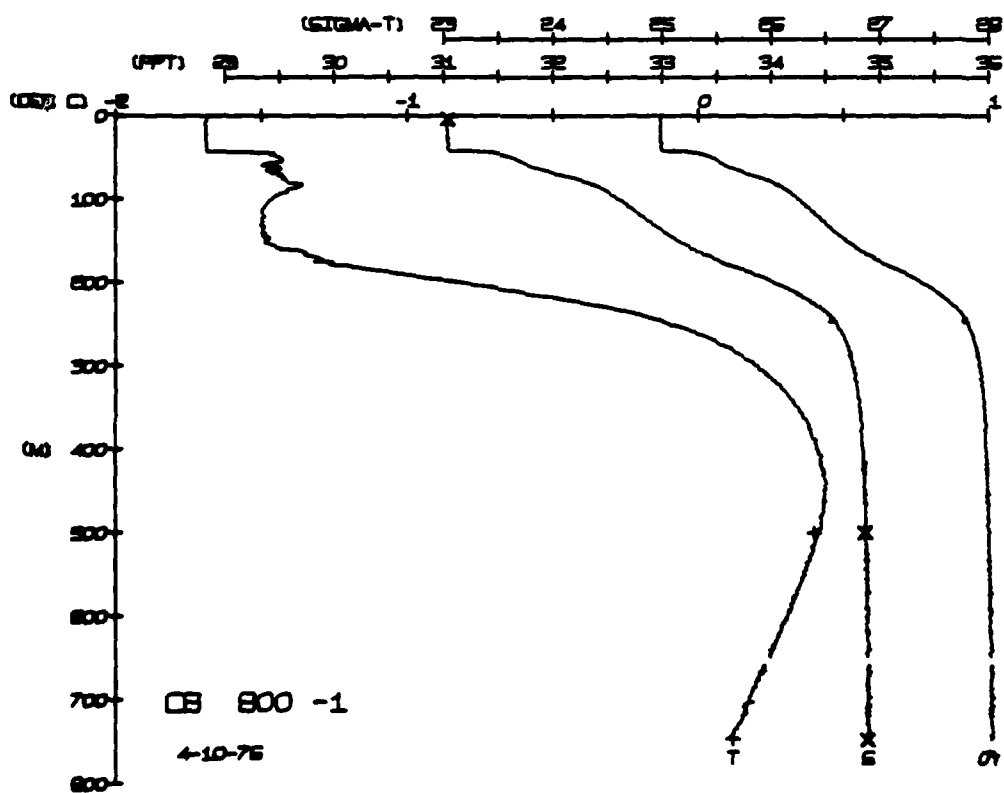
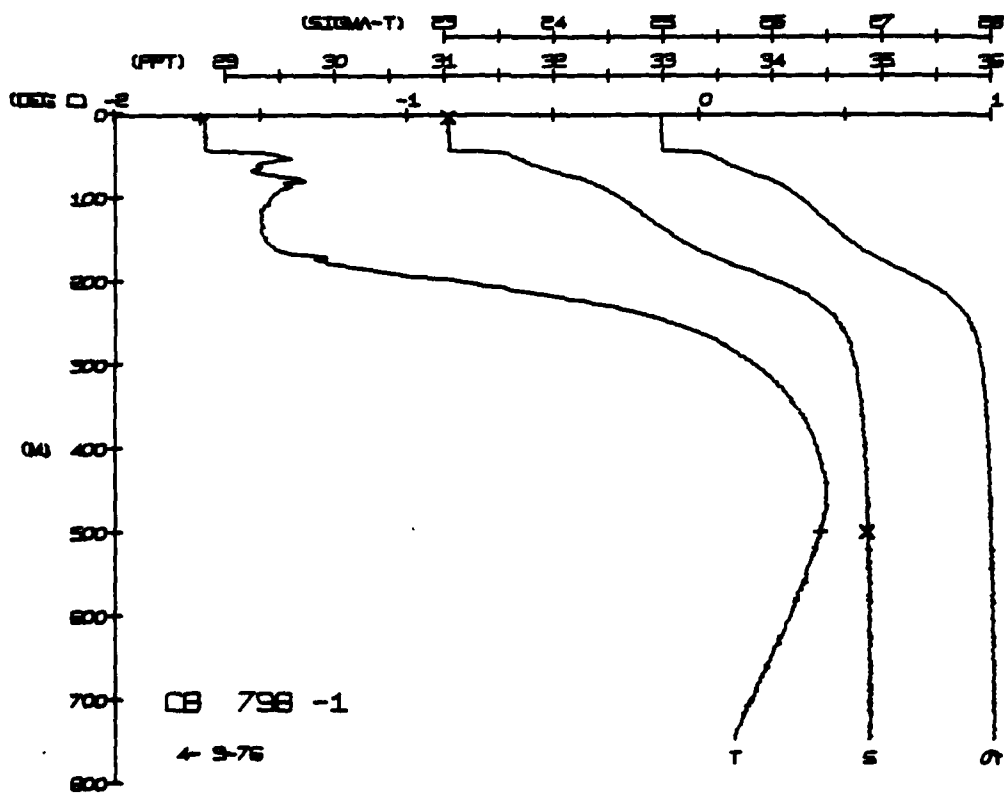
CARIBOU STATION 796(1) CTD 8/APR/1976 1800 GMT CODE = 1  
LAT = 72.7219N LNG = 144.3165W ITER = 0 LGEN = 0  
AIR TEMP = -16.9 BAROM = 1021.4 WIND = 119.4 SPEED = 66.1

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVUL	DYNHT	SOUND
0	70	70	06	00	4	000	7.8890
1	70	70	06	00	4	000	7.8900
2	70	70	06	00	4	000	7.8910
3	70	70	06	00	4	000	7.8920
4	70	70	06	00	4	000	7.8930
5	70	70	06	00	4	000	7.8940
6	70	70	06	00	4	000	7.8950
7	70	70	06	00	4	000	7.8960
8	70	70	06	00	4	000	7.8970
9	70	70	06	00	4	000	7.8980
10	70	70	06	00	4	000	7.8990
11	70	70	06	00	4	000	7.9000
12	70	70	06	00	4	000	7.9010
13	70	70	06	00	4	000	7.9020
14	70	70	06	00	4	000	7.9030
15	70	70	06	00	4	000	7.9040
16	70	70	06	00	4	000	7.9050
17	70	70	06	00	4	000	7.9060
18	70	70	06	00	4	000	7.9070
19	70	70	06	00	4	000	7.9080
20	70	70	06	00	4	000	7.9090
21	70	70	06	00	4	000	7.9100
22	70	70	06	00	4	000	7.9110
23	70	70	06	00	4	000	7.9120
24	70	70	06	00	4	000	7.9130
25	70	70	06	00	4	000	7.9140
26	70	70	06	00	4	000	7.9150
27	70	70	06	00	4	000	7.9160
28	70	70	06	00	4	000	7.9170
29	70	70	06	00	4	000	7.9180
30	70	70	06	00	4	000	7.9190
31	70	70	06	00	4	000	7.9200
32	70	70	06	00	4	000	7.9210
33	70	70	06	00	4	000	7.9220
34	70	70	06	00	4	000	7.9230
35	70	70	06	00	4	000	7.9240
36	70	70	06	00	4	000	7.9250
37	70	70	06	00	4	000	7.9260
38	70	70	06	00	4	000	7.9270
39	70	70	06	00	4	000	7.9280
40	70	70	06	00	4	000	7.9290
41	70	70	06	00	4	000	7.9300
42	70	70	06	00	4	000	7.9310
43	70	70	06	00	4	000	7.9320
44	70	70	06	00	4	000	7.9330
45	70	70	06	00	4	000	7.9340
46	70	70	06	00	4	000	7.9350
47	70	70	06	00	4	000	7.9360
48	70	70	06	00	4	000	7.9370
49	70	70	06	00	4	000	7.9380
50	70	70	06	00	4	000	7.9390
51	70	70	06	00	4	000	7.9400
52	70	70	06	00	4	000	7.9410
53	70	70	06	00	4	000	7.9420
54	70	70	06	00	4	000	7.9430
55	70	70	06	00	4	000	7.9440
56	70	70	06	00	4	000	7.9450
57	70	70	06	00	4	000	7.9460
58	70	70	06	00	4	000	7.9470
59	70	70	06	00	4	000	7.9480
60	70	70	06	00	4	000	7.9490
61	70	70	06	00	4	000	7.9500

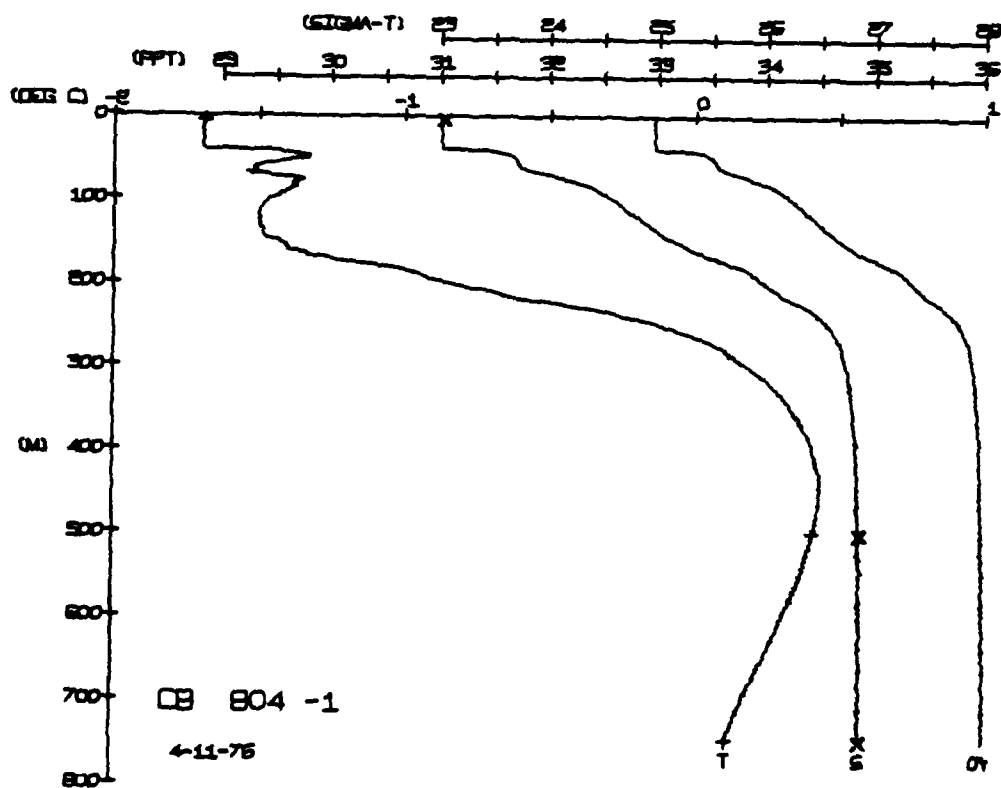
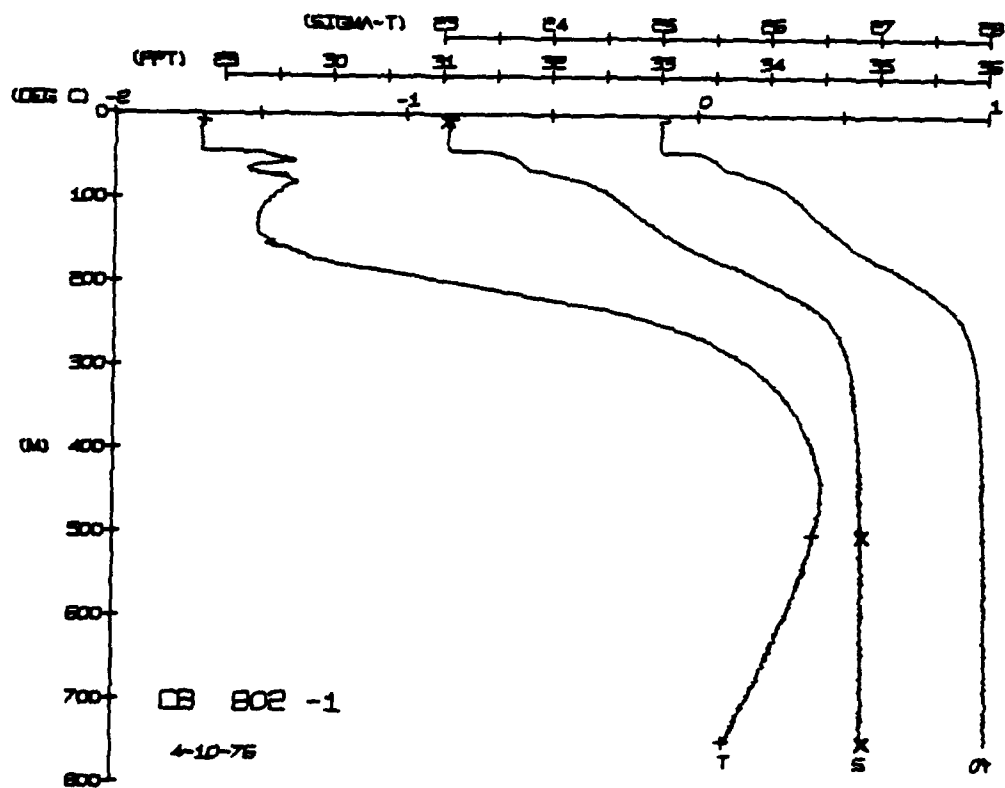
[illegible]













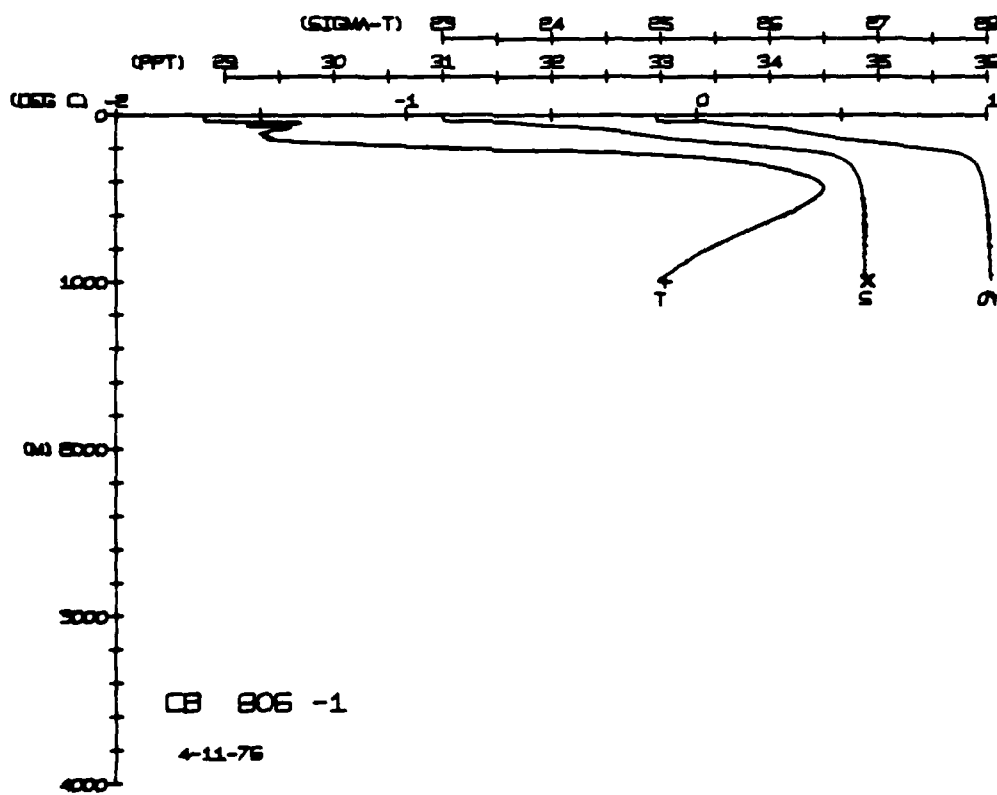
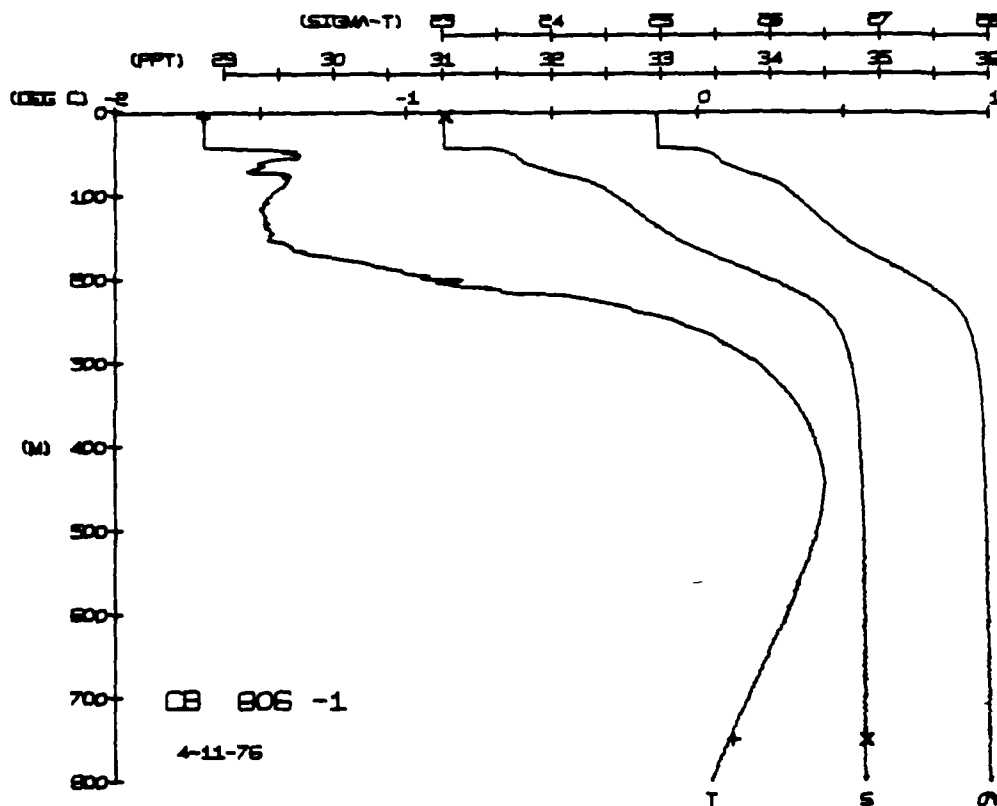
CARIBOU STATION 806(1) CTD 11/APR/1976 1825 GMT CODE = 1  
 LAT = 72.7243N LNC = 144.7266W  
 AIR TEMP = -18.9 BAROM = 1008.5 WIND = 81.4 SPEED = 74.0

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND	TEMP	DEPTH	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	9.9	9.9	34.88	28.03	9.3	0.506	1463.1	850.0	850.0	34.88	28.03	9.3	0.506	1463.1
5	9.9	9.9	34.88	28.03	8.7	0.510	1463.6	900.0	900.0	34.88	28.03	8.7	0.510	1463.6
10	9.9	9.9	34.88	28.03	8.4		1464.4	950.0	950.0	34.88	28.03	8.4		1464.4

TEMP.	SALIN
-1.70	31.02
-0.13	34.89
-0.11	34.90

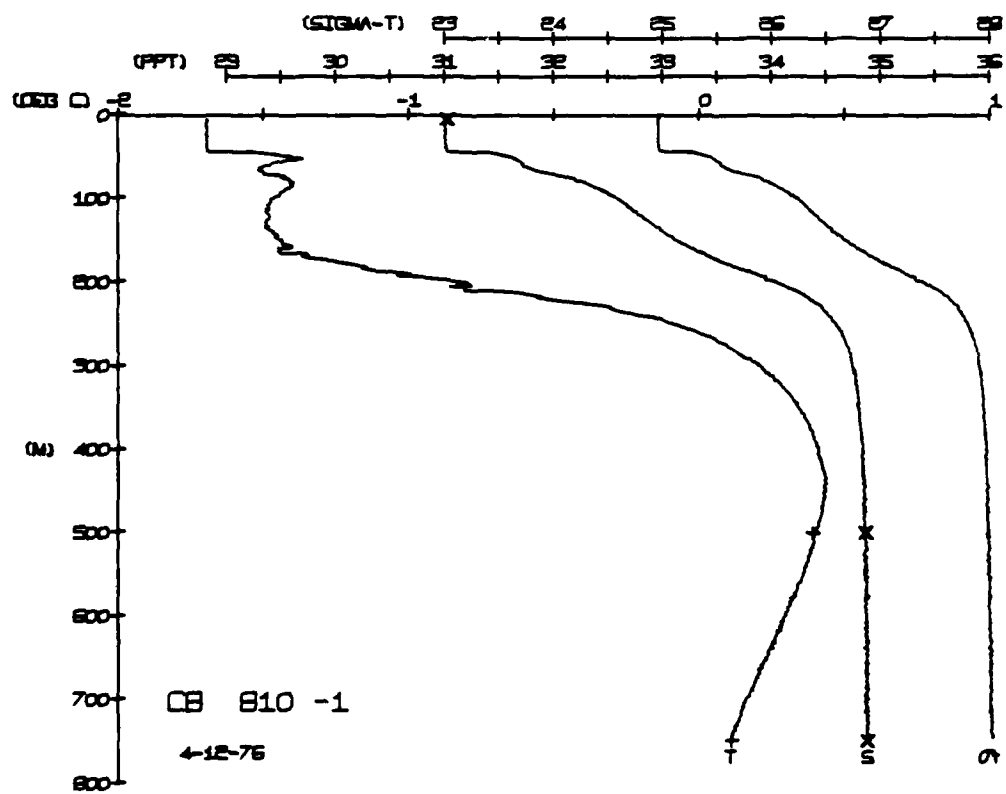
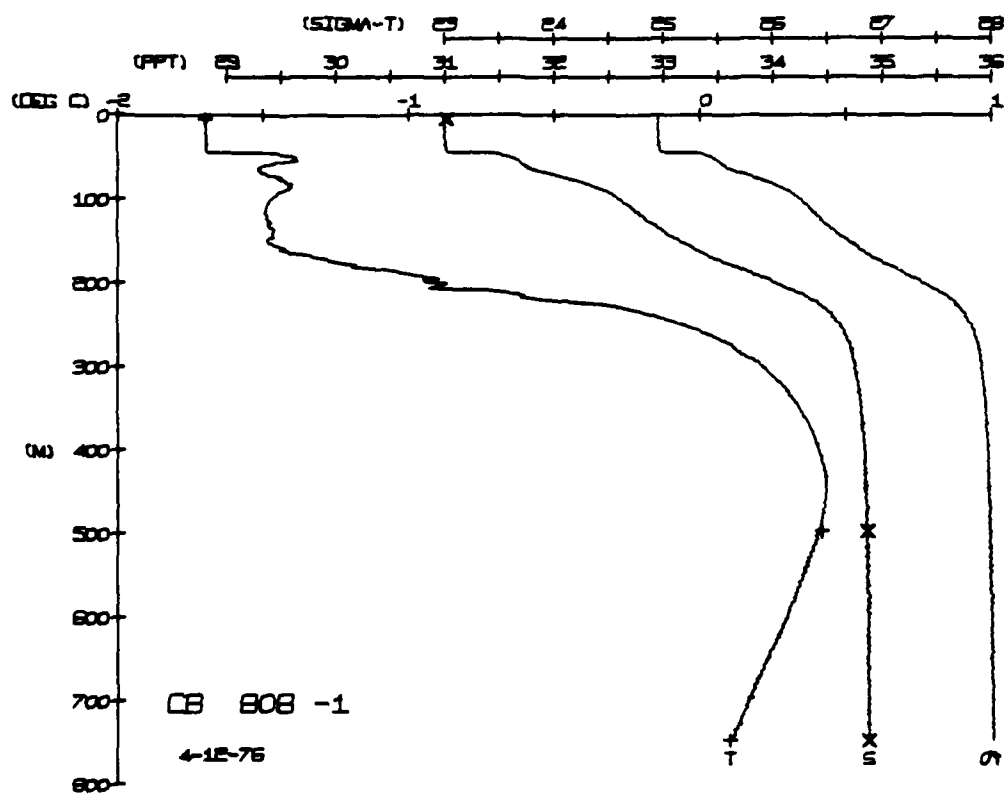
DEPTH	NUM = 1	NUM = 2
5.5		
749.6		
945.6		

DEPTH	TEMP	PTEMP	SALIN	SIG T	SPVOL	DYNHT	SOUND
0	9.9	9.9	34.88	28.03	9.3	0.506	1463.1
5	9.9	9.9	34.88	28.03	8.7	0.510	1463.6
10	9.9	9.9	34.88	28.03	8.4		1464.4
15	9.9	9.9	34.88	28.03	8.1		1465.2
20	9.9	9.9	34.88	28.03	7.8		1466.0
25	9.9	9.9	34.88	28.03	7.5		1466.8
30	9.9	9.9	34.88	28.03	7.2		1467.6
35	9.9	9.9	34.88	28.03	6.9		1468.4
40	9.9	9.9	34.88	28.03	6.6		1469.2
45	9.9	9.9	34.88	28.03	6.3		1470.0
50	9.9	9.9	34.88	28.03	6.0		1470.8
55	9.9	9.9	34.88	28.03	5.7		1471.6
60	9.9	9.9	34.88	28.03	5.4		1472.4
65	9.9	9.9	34.88	28.03	5.1		1473.2
70	9.9	9.9	34.88	28.03	4.8		1474.0
75	9.9	9.9	34.88	28.03	4.5		1474.8
80	9.9	9.9	34.88	28.03	4.2		1475.6
85	9.9	9.9	34.88	28.03	3.9		1476.4
90	9.9	9.9	34.88	28.03	3.6		1477.2
95	9.9	9.9	34.88	28.03	3.3		1478.0
100	9.9	9.9	34.88	28.03	3.0		1478.8
105	9.9	9.9	34.88	28.03	2.7		1479.6
110	9.9	9.9	34.88	28.03	2.4		1480.4
115	9.9	9.9	34.88	28.03	2.1		1481.2
120	9.9	9.9	34.88	28.03	1.8		1482.0
125	9.9	9.9	34.88	28.03	1.5		1482.8
130	9.9	9.9	34.88	28.03	1.2		1483.6
135	9.9	9.9	34.88	28.03	0.9		1484.4
140	9.9	9.9	34.88	28.03	0.6		1485.2
145	9.9	9.9	34.88	28.03	0.3		1486.0
150	9.9	9.9	34.88	28.03	0.0		1486.8

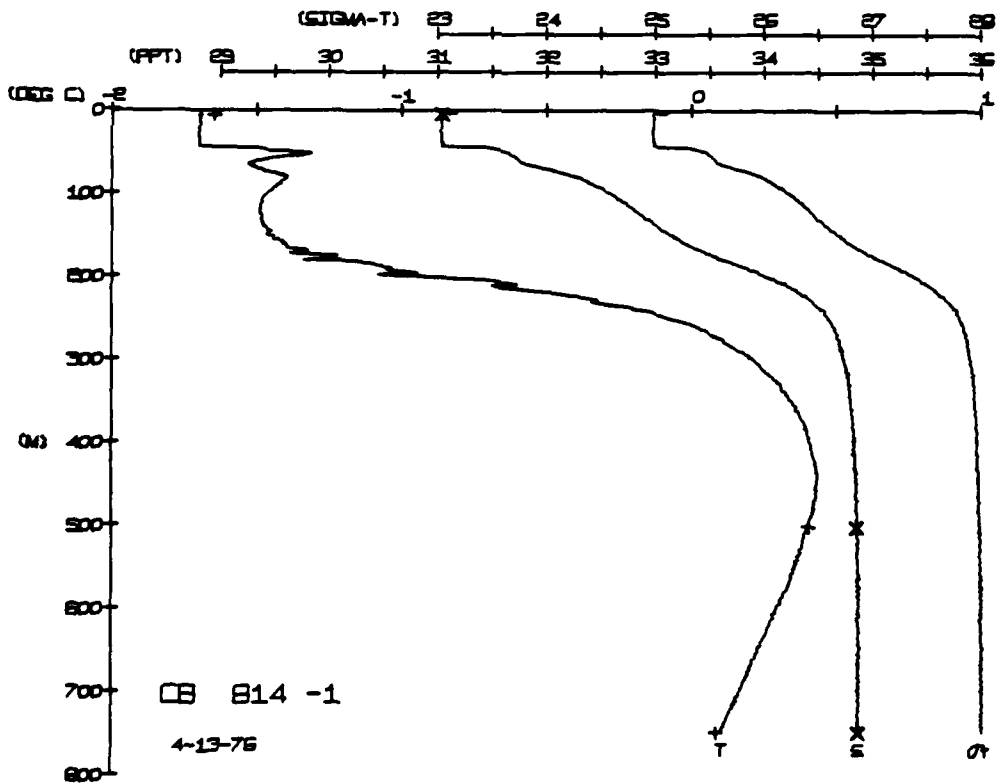
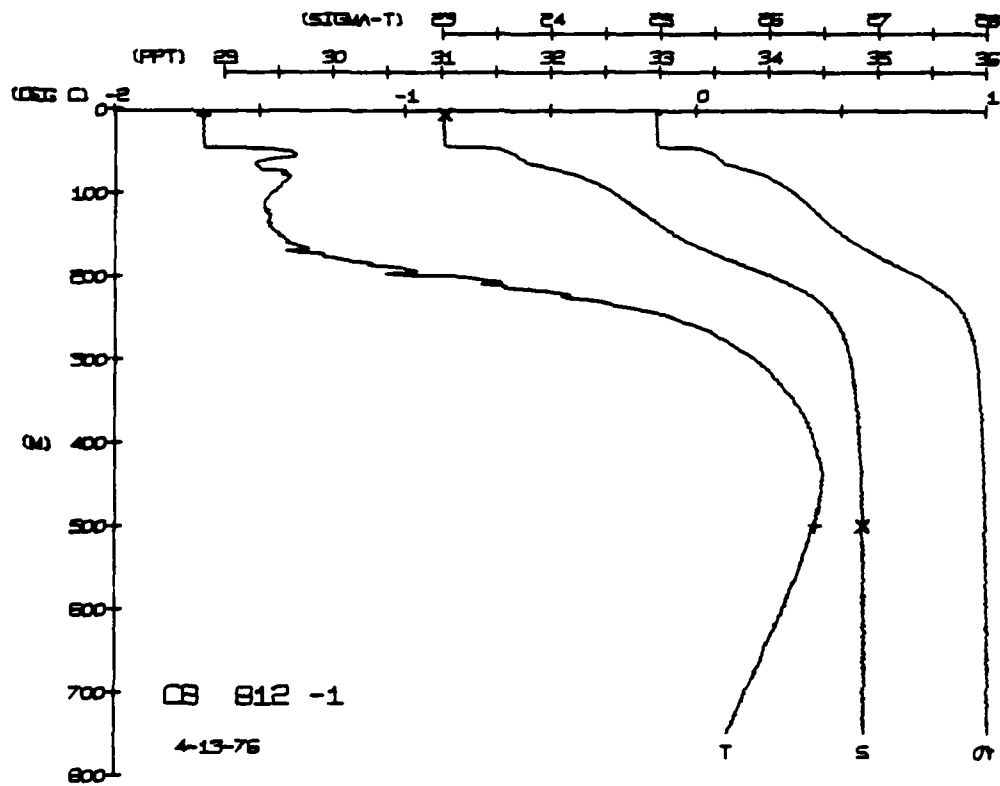


CARIBOU STATION 810(1) CTD 12/APR/1976 1800 GMT CODE = 1  
LAT = 72.7428N LNG = 144.9257W LTER = 313. LGER = 278.  
AIR TEMP = -20.7 BAROM = 1008.5 WIND = 121.0 SPEED = 17.6

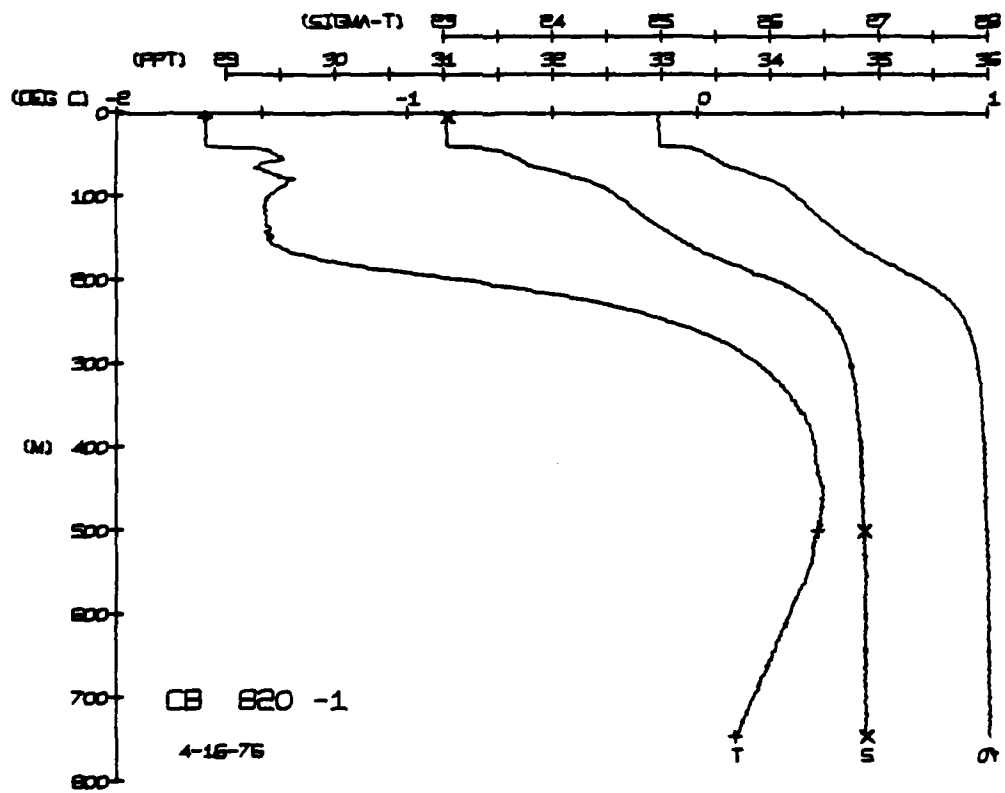
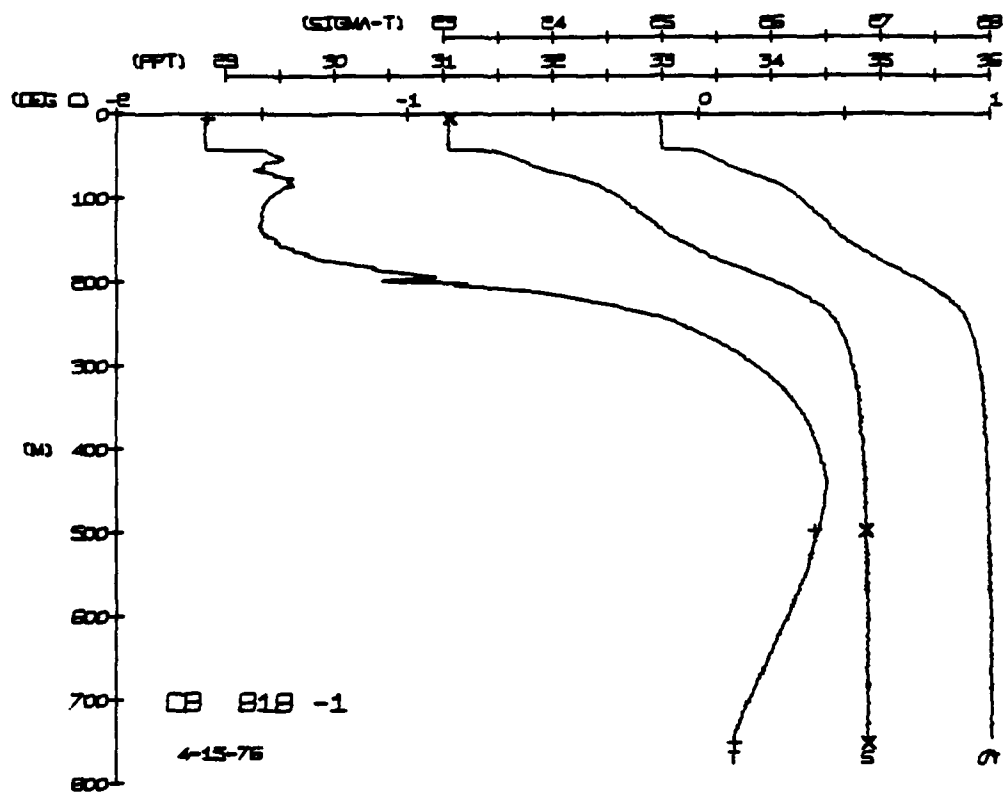
DEPTH	TEMP	PTMP	SALIN	SIC	TEMP.	SPVL	DWHT	SOUND
00	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
05	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
10	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
15	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
20	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
25	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
30	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
35	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
40	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
45	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
50	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
55	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
60	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
65	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
70	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
75	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
80	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
85	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
90	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
95	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
100	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
105	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
110	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
115	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
120	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
125	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
130	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
135	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
140	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
145	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
150	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
155	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
160	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
165	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
170	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
175	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
180	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
185	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
190	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
195	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
200	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
205	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
210	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
215	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
220	69.99	1.11	0.02	7.97	0.40	5.25	00	1335.78
225	69.99	1.11	0.02	7.97	0.40	5.25	00	1







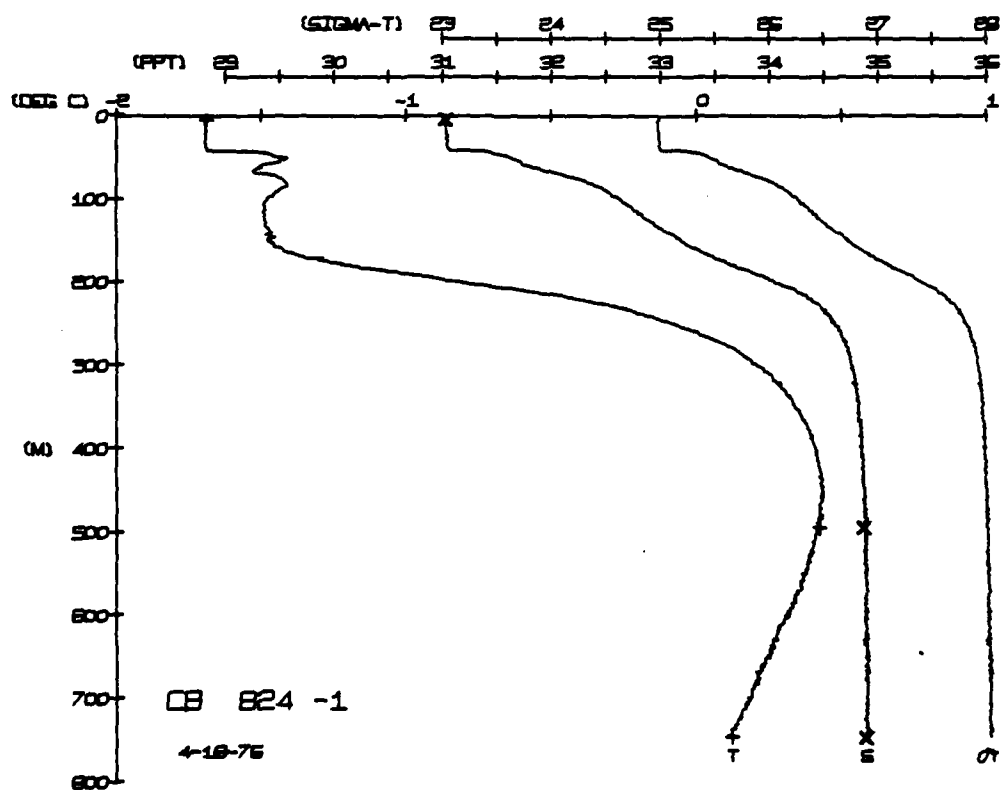
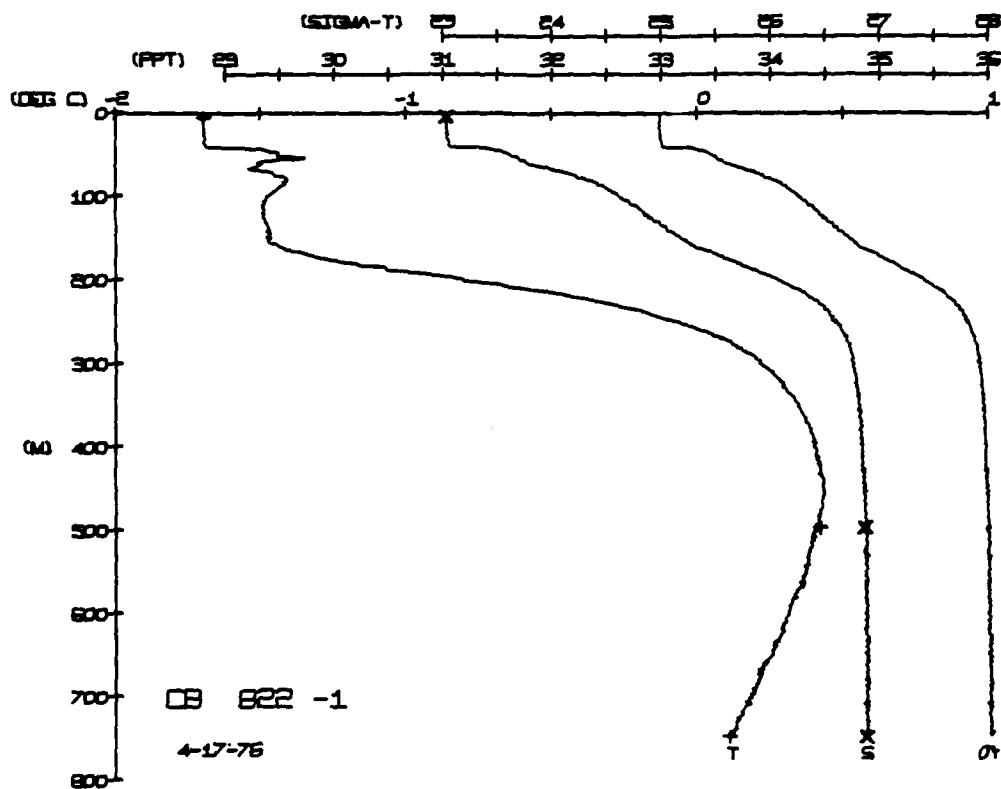




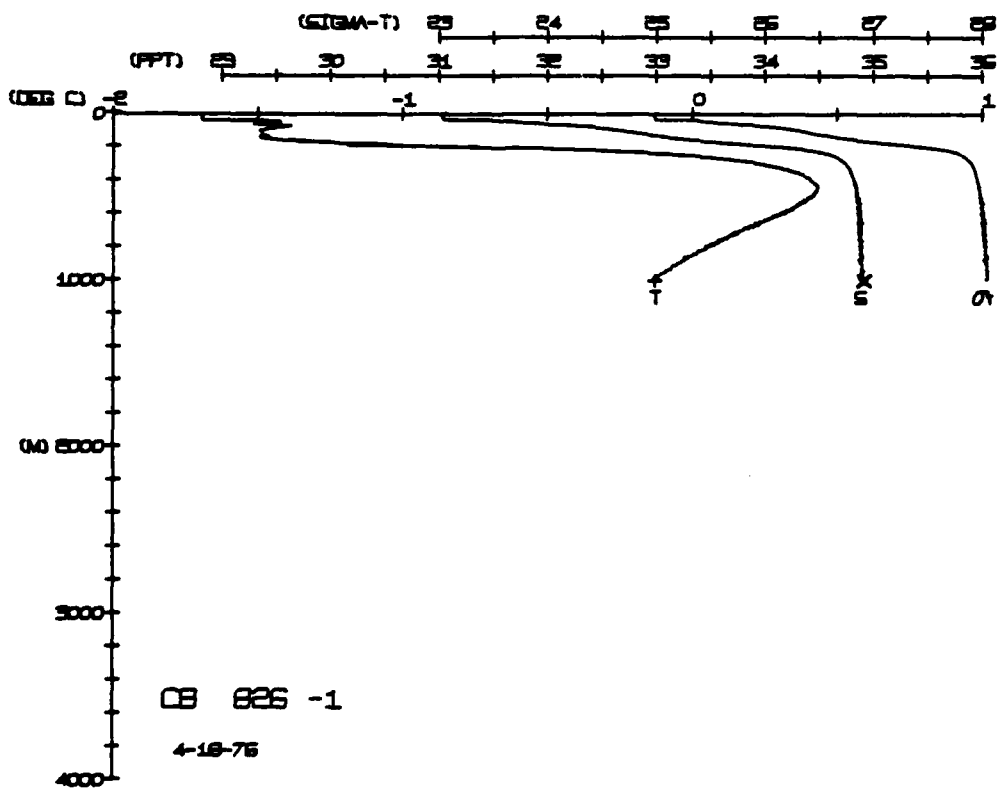
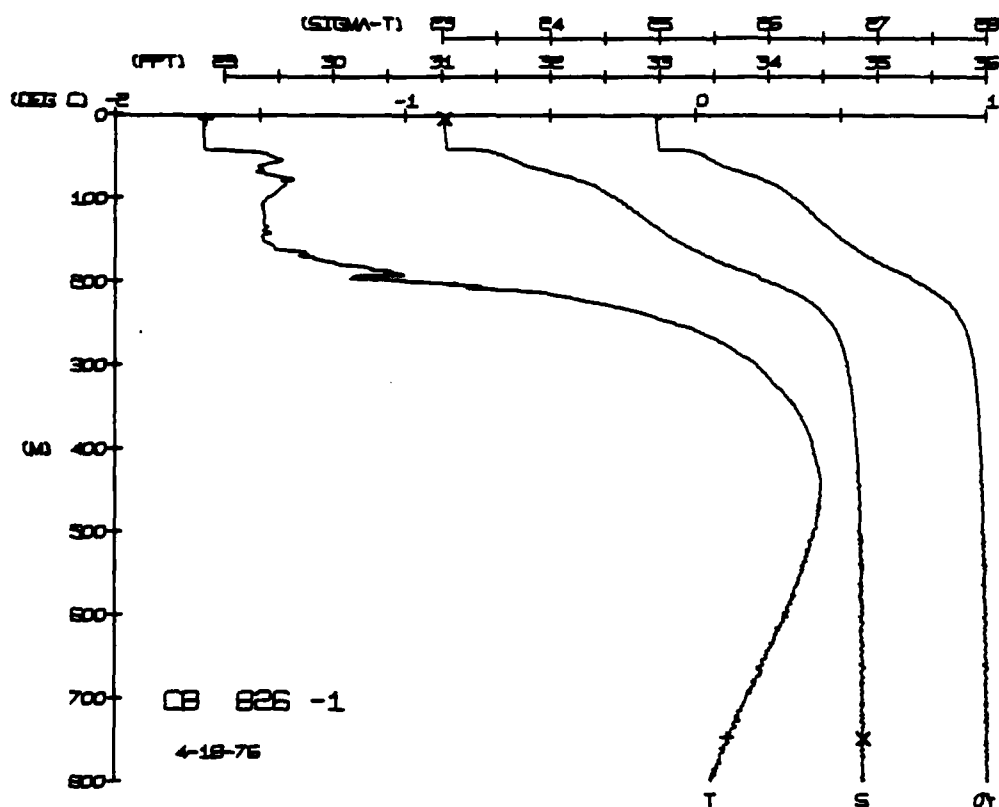


SCARIBOU STATION 824(1) CTD 18/APR/1976 600 GMT C00L = 1  
LAT = 72.7583N LNG = 144.4544W LTR = 1. LGER = 1.  
AIR TEMP = -23.9 HARUM = 1022.6 WIND = 74.3 SPEED = 19.3

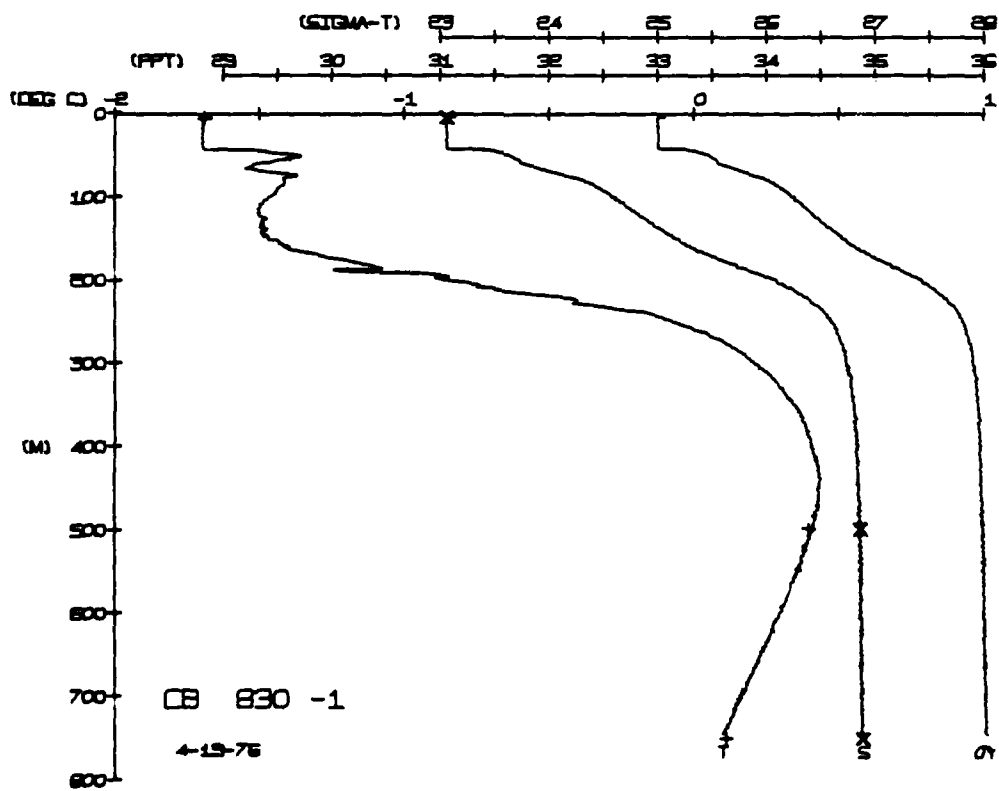
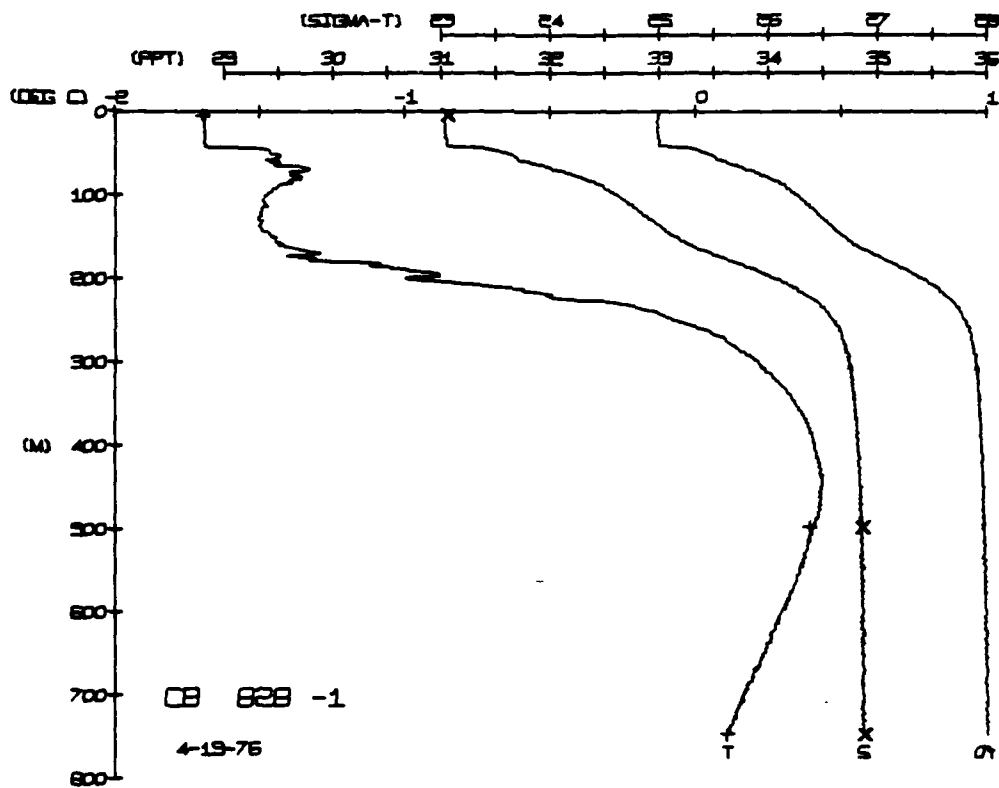
LARIUM STATION 822(1) CTD 17/APR/1976 1800 GMT CODE = 1  
 LAT = 72.7587N LNG = 144.4359W LTER = 1. LGER = 1.  
 AIR TEMP = -24.8 PARUM = 1021.6 WIND = 164.8 SPEED = 9.6



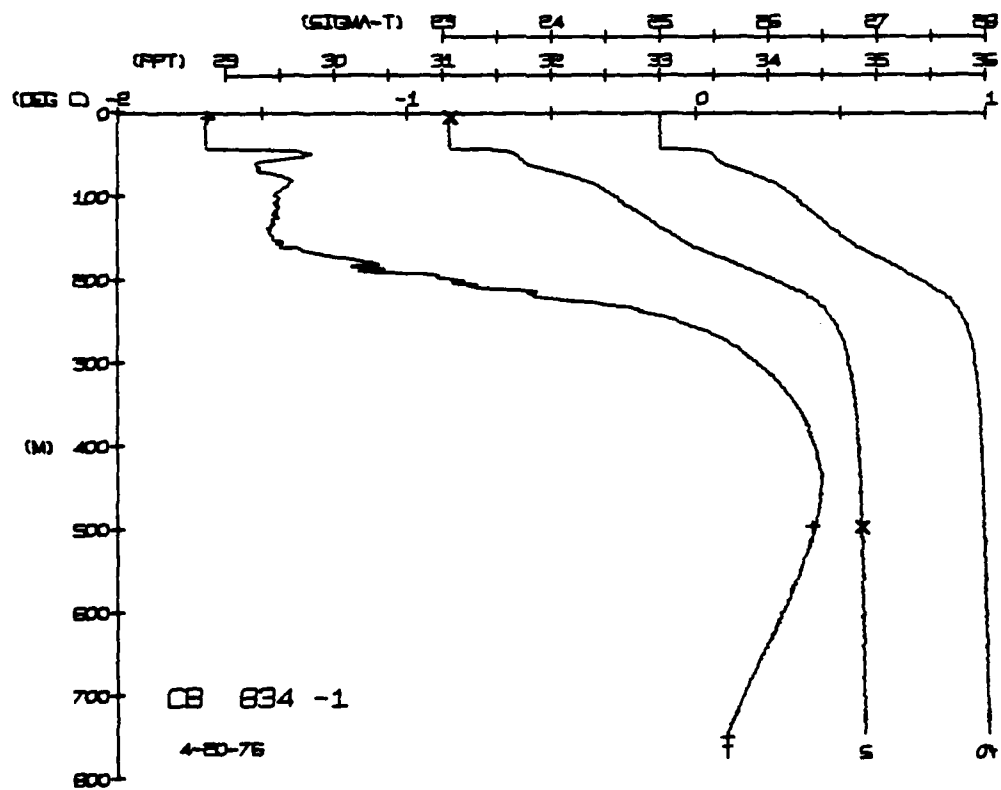
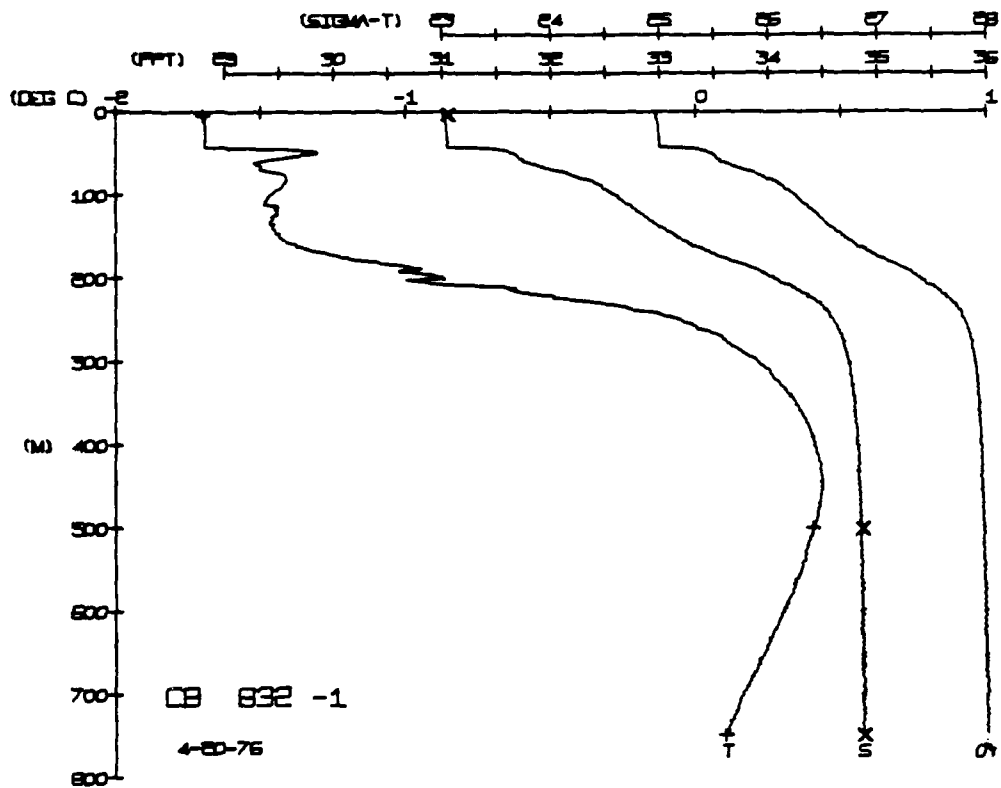






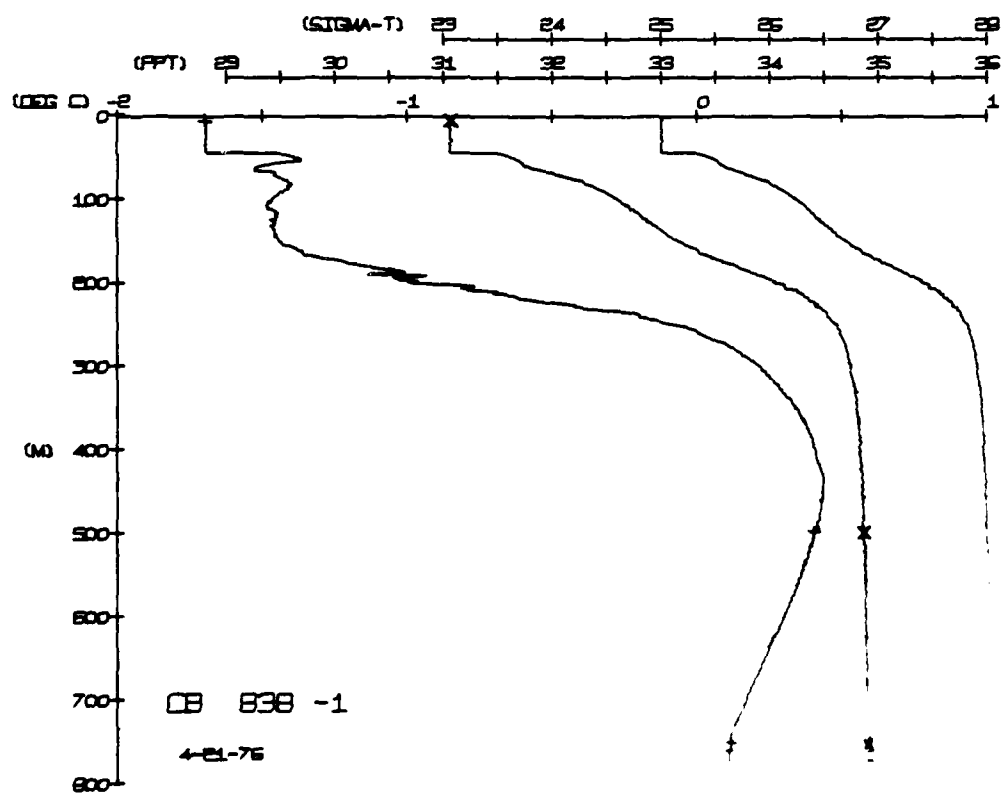
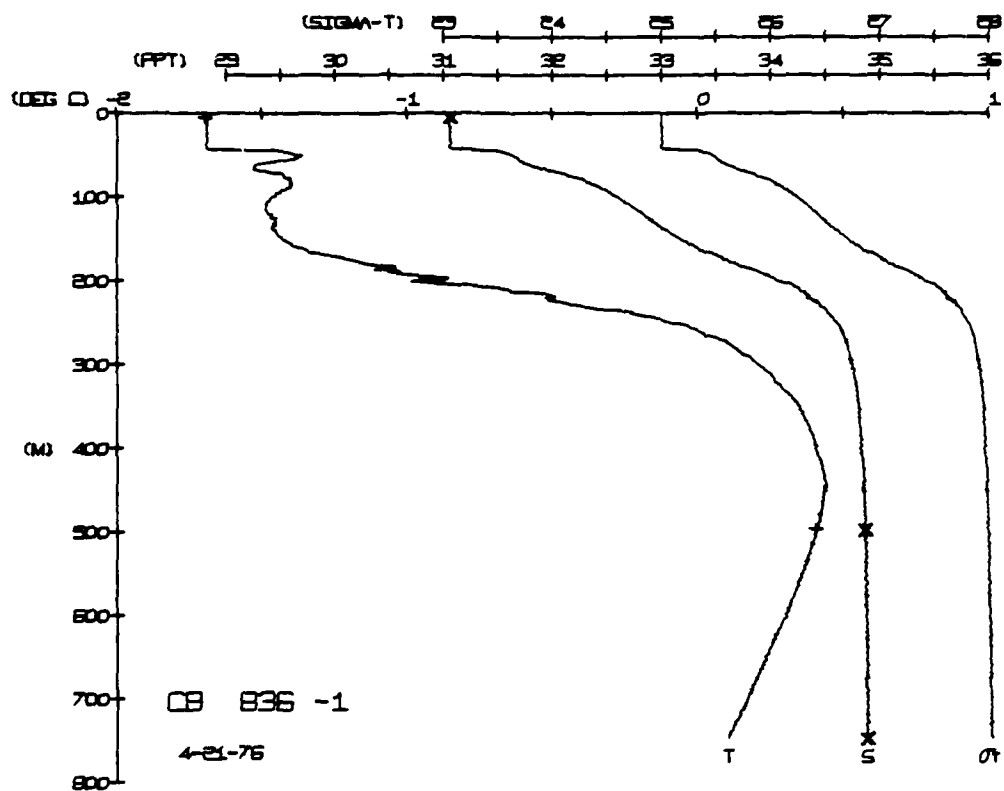












AD-A118 202

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY PALISADES NY F/6 8/10  
ARCTIC ICE DYNAMICS JOINT EXPERIMENT 1975-1976. PHYSICAL OCEANO--ETC(U)  
FEB 80 E BAUER, K HUNKINS, T O MANLEY N00014-76-C-0004  
LD60-CU-8-80 NL

UNCLASSIFIED

7 0+ 7

AD-A  
INFO:



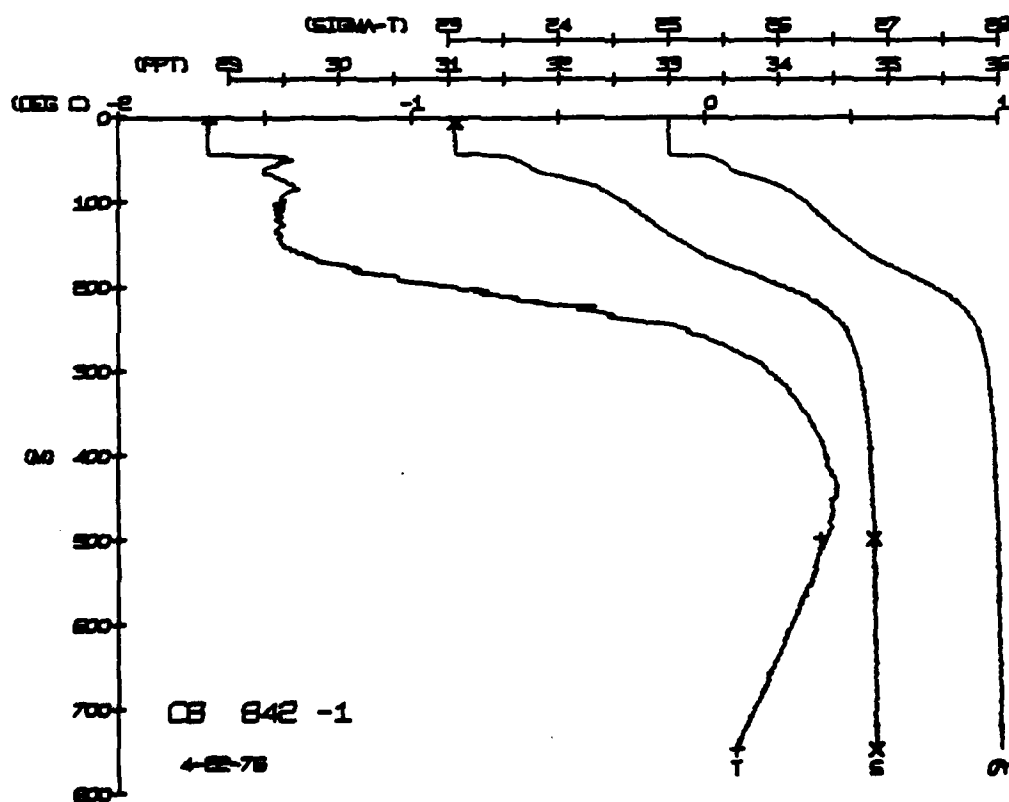
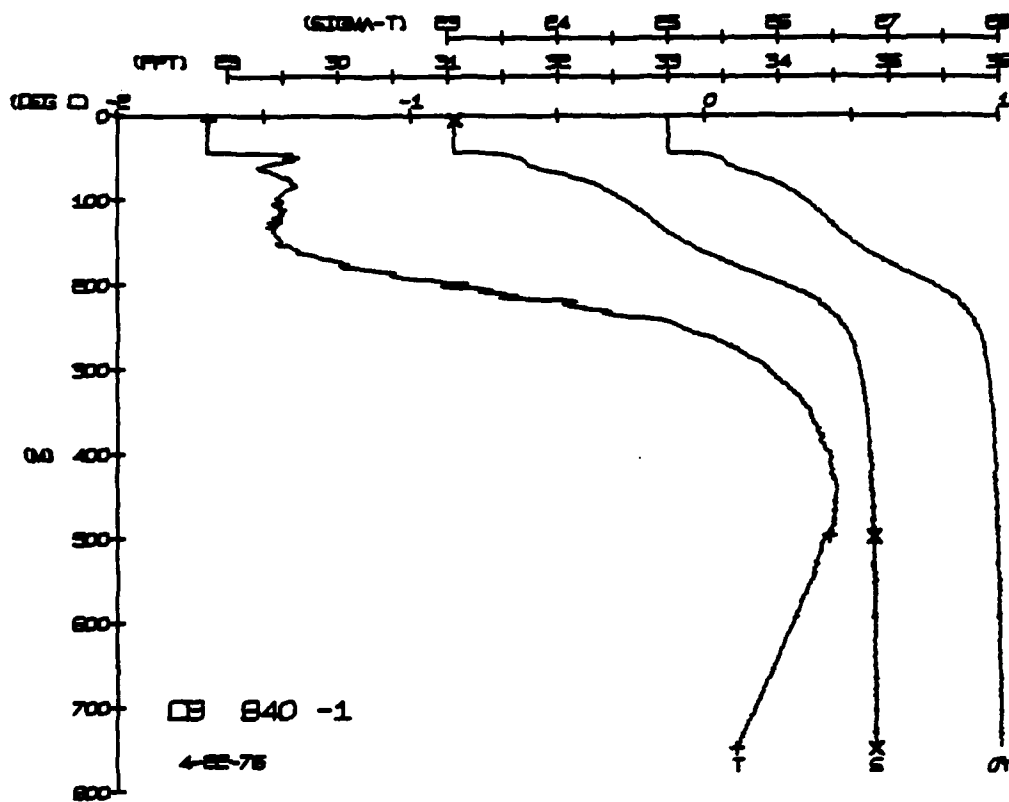
END  
DATE  
FILMED

09:82  
DTIC

CARLHUV STATION 840(1) CTU 22/APR/1976 610 GMT CODE = 1  
LAT = 72.7254N LNG = 144.8830W DYER = 3  
AIR TEMP = -22.9 BAROM = 1016.0 WIND = 70.1 SPEED = 49.7

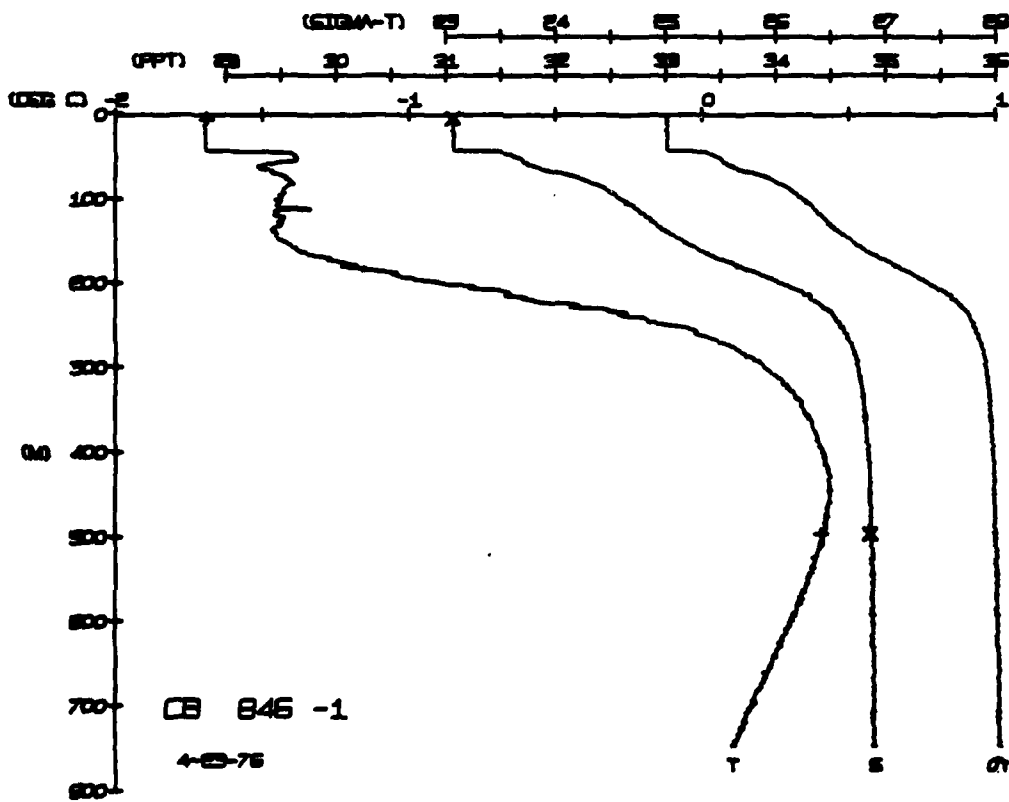
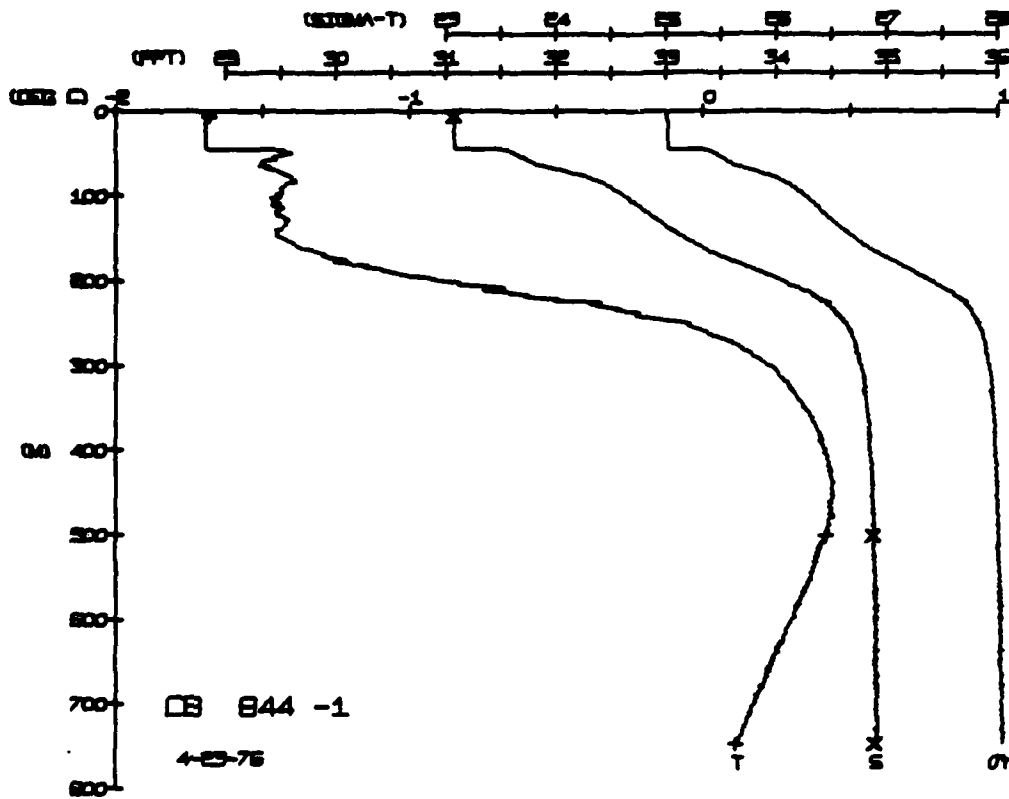
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	{		}	~	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0G	0H	0I	0J	0K	0L	0M	0N	0O	0P	0Q	0R	0S	0T	0U	0V	0W	0X	0Y	0Z	0[	0\	0]	0^	0_	0`	0a	0b	0c	0d	0e	0f	0g	0h	0i	0j	0k	0l	0m	0n	0o	0p	0q	0r	0s	0t	0u	0v	0w	0x	0y	0z	0{	0	0}	0~	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	000A	000B	000C	000D	000E	000F	000G	000H	000I	000J	000K	000L	000M	000N	000O	000P	000Q	000R	000S	000T	000U	000V	000W	000X	000Y	000Z	000[	000\	000]	000^	000_	000`	000a	000b	000c	000d	000e	000f	000g	000h	000i	000j	000k	000l	000m	000n	000o	000p	000q	000r	000s	000t	000u	000v	000w	000x	000y	000z	000{	000	000}	000~	000000	000001	000002	000003	000004	000005	000006	000007	000008	000009	00000A	00000B	00000C	00000D	00000E	00000F	00000G	00000H	00000I	00000J	00000K	00000L	00000M	00000N	00000O	00000P	00000Q	00000R	00000S	00000T	00000U	00000V	00000W	00000X	00000Y	00000Z	00000[	00000\	00000]	00000^	00000_	00000`	00000a	00000b	00000c	00000d	00000e	00000f	00000g	00000h	00000i	00000j	00000k	00000l	00000m	00000n	00000o	00000p	00000q	00000r	00000s	00000t	00000u	00000v	00000w	00000x	00000y	00000z	00000{	00000	00000}	00000~	00000000	00000001	00000002	00000003	00000004	00000005	00000006	00000007	00000008	00000009	0000000A	0000000B	0000000C	0000000D	0000000E	0000000F	0000000G	0000000H	0000000I	0000000J	0000000K	0000000L	0000000M	0000000N	0000000O	0000000P	0000000Q	0000000R	0000000S	0000000T	0000000U	0000000V	0000000W	0000000X	0000000Y	0000000Z	0000000[	0000000\	0000000]	0000000^	0000000_	0000000`	0000000a	0000000b	0000000c	0000000d	0000000e	0000000f	0000000g	0000000h	0000000i	0000000j	0000000k	0000000l	0000000m	0000000n	0000000o	0000000p	0000000q	0000000r	0000000s	0000000t	0000000u	0000000v	0000000w	0000000x	0000000y	0000000z	0000000{	0000000	0000000}	0000000~	0000000000	0000000001	0000000002	0000000003	0000000004	0000000005	0000000006	0000000007	0000000008	0000000009	000000000A	000000000B	000000000C	000000000D	000000000E	000000000F	000000000G	000000000H	000000000I	000000000J	000000000K	000000000L	000000000M	000000000N	000000000O	000000000P	000000000Q	000000000R	000000000S	000000000T	000000000U	000000000V	000000000W	000000000X	000000000Y	000000000Z	000000000[	000000000\	000000000]	000000000^	000000000_	000000000`	000000000a	000000000b	000000000c	000000000d	000000000e	000000000f	000000000g	000000000h	000000000i	000000000j	000000000k	000000000l	000000000m	
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	DEPTH	TEMP.	SALIN
BUT NUM = 1	5.4	-1.69	31.06
BUT NUM = 2	497.4	0.43	34.87
BUT NUM = 3	777.7	0.11	34.90



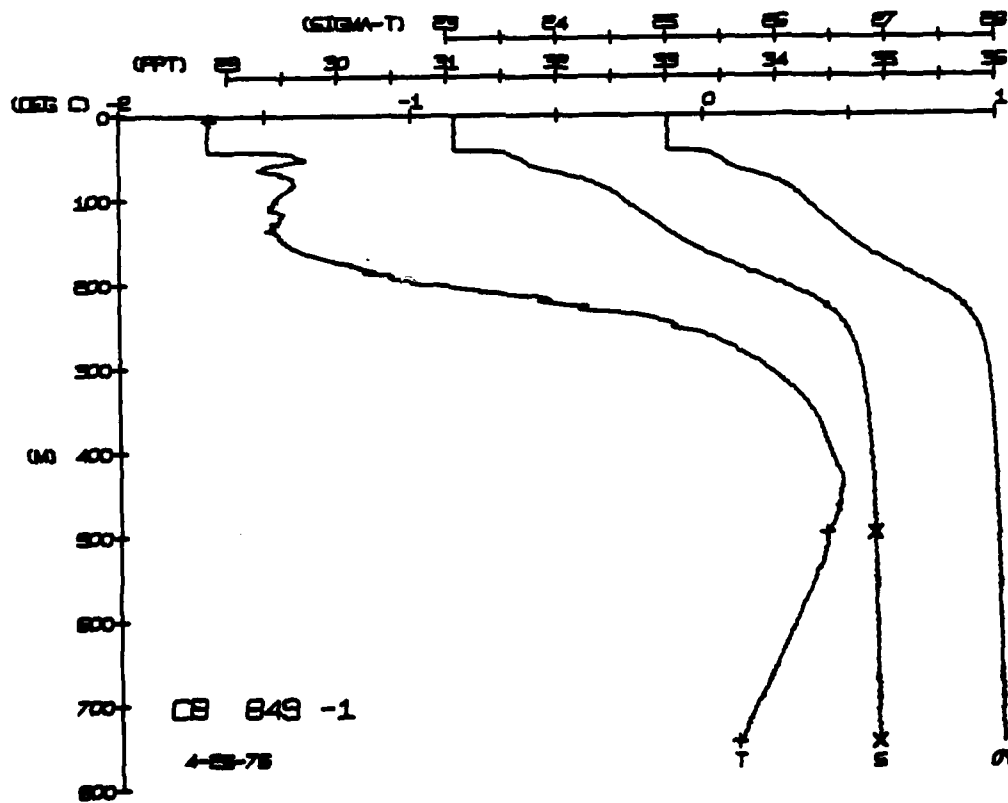
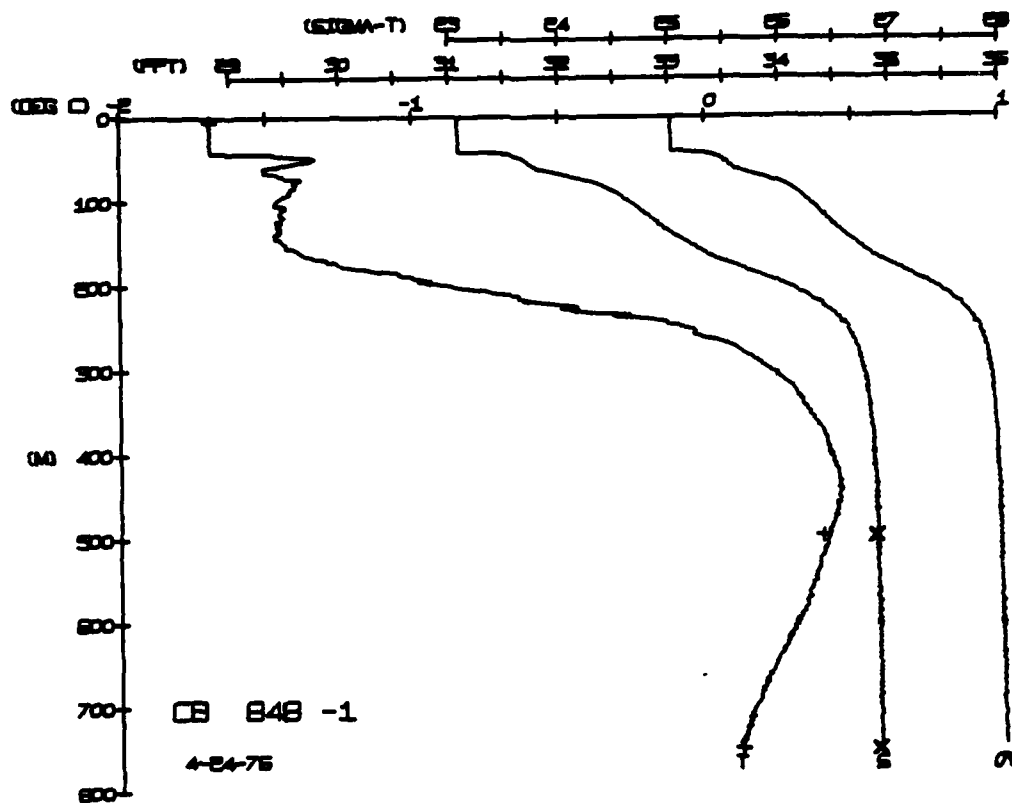
CARIBOU STATION B46(1) CTD 23/APR/1976 1800 GMT CODE = 1  
LAT = 72.7264N LNC = 144.8959W LTR = 0 LGDN = 0  
AIR TEMP = -15.9 BARUM = 1020.5 WIND = 40.6 SPEED = 38.1

[illegible][illegible]







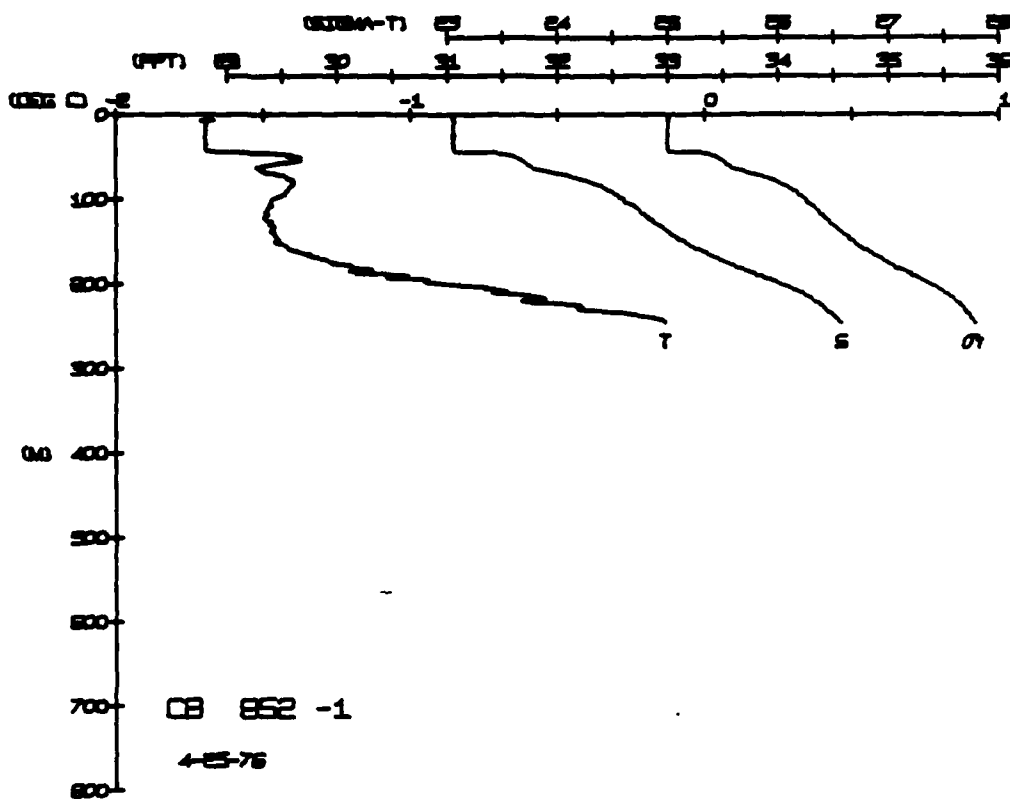


CARIBOU STATION 852(1) CTD 25/APR/1976 1800 GMT CUBE = 1  
 LAT = 72.7484N LNC = 145.1158W LTER = 0 LGER = 0  
 ALT TEMP = -12.2 HANUM = 1020.3 WIND = 79.5 SPED = 67.0

DEPTH	TEMP	PIEMP	SALIN	SEC	SPWUL	WYHNT	SOUND
0.0	1.70	-1.70	31.06	00	296.3	0.00	1435.8
5.0	1.70	-1.70	31.06	00	296.3	0.01	1435.9
10.0	1.70	-1.70	31.05	00	297.1	0.01	1435.9
15.0	1.70	-1.70	31.05	00	296.6	0.03	1436.1
20.0	1.70	-1.70	31.05	00	296.7	0.04	1436.3
25.0	1.69	-1.69	31.05	00	296.9	0.07	1436.3
30.0	1.70	-1.70	31.05	00	296.6	0.09	1436.4
35.0	1.69	-1.69	31.05	01	295.9	0.11	1436.5
40.0	1.69	-1.69	31.05	01	295.7	0.14	1436.6
45.0	1.69	-1.69	31.05	01	294.4	0.17	1438.1
50.0	1.67	-1.67	31.05	01	293.9	0.19	1438.7
55.0	1.67	-1.67	31.05	01	293.9	0.21	1438.9
60.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
65.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
70.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
75.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
80.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
85.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
90.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
95.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
100.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
105.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
110.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
115.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
120.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
125.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
130.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
135.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
140.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
145.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
150.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
155.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
160.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
165.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
170.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
175.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
180.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
185.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
190.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
195.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
200.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
205.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
210.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
215.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
220.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
225.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
230.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
235.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1
240.0	1.67	-1.67	31.05	01	293.9	0.21	1439.1

DEPTH	TEMP.	SALIN
5.7	-1.70	34.88
496.3	0.41	34.90
747.2	0.12	

HUT NUM = 1  
 HUT NUM = 2  
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REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER Tech. Rpt. CU-8-80 Vol. 1	2. GOVT ACCESSION NO. AD-A1228	3. RECIPIENT'S CATALOG NUMBER 202
4. TITLE (and Subtitle) Arctic Ice Dynamics Joint Experiment 1975-76 Physical Oceanography Data Report, Salinity, Temperature and Depth Data, Camp Caribou, Volume 1		5. TYPE OF REPORT & PERIOD COVERED
7. AUTHOR(s) Edward Bauer, Kenneth Hunkins, T. O. Manley, Werner Tiemann		6. PERFORMING ORG. REPORT NUMBER
9. PERFORMING ORGANIZATION NAME AND ADDRESS Lamont-Doherty Geological Observatory of Columbia University, Palisades, New York 10964		8. CONTRACT OR GRANT NUMBER(s) N00014-76-C-0004
11. CONTROLLING OFFICE NAME AND ADDRESS Department of the Navy, Office of Naval Research, Code 481, Arlington, VA 22217		10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office)		12. REPORT DATE May 1980
		13. NUMBER OF PAGES 529
		15. SECURITY CLASS. (of this report)  Unclassified
		15a. DECLASSIFICATION/DOWNGRADING SCHEDULE
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17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)  AIDJEX, Arctic Ocean, mesoscale eddies, mixed layer, Beaufort Sea, step structure, supercooled water, STD measurements.		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A total of 1391 STD (CTD) stations were taken from four manned drifting ice camps in the Arctic Ocean during the Arctic Ice Dynamics Joint Experiment (AIDJEX) from April 1975 to April 1976. Profiles were taken at least one a day from the surface to 750 m at all camps and weekly casts to 3000 meters were taken at the main camp. Between casts all stations ran time series by hold- ing the sensor at a fixed depth within the pycnocline; however,		

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these data are not discussed. Plessey Model 9040 STD units were used at all camps and data were simultaneously recorded digitally on magnetic tape and graphically on analog charts.

The profile data from the digital tapes were smoothed using a running average. The differing response times of the temperature and salinity sensors were corrected for thermal lag by varying a lag correction until one value gave nearly congruent traces on a T-S diagram for the descending and ascending parts of the cast. A salinity drift which occurred when the sensors were stopped for bottle sampling was also taken into account during data reduction.

Whenever the digital data logging (DDL) system failed to work properly, manually digitized analog traces provided data backup. These profiles, however, are not considered to be as accurate as those processed from tape.

Static calibration of the temperature, salinity, and depth sensors was provided by bottle and reversing thermometer data. Least squares, best-fit polynomials, whose dependent parameters were temperature (T) and depth (D), converted the observed data to final data. Preliminary data analysis has revealed unique features of the temperature and salinity structure in the Beaufort Sea. One of these features is a wintertime upper mixed layer between 25 and 60 m produced by brine convection beneath the freezing ice sheet. This layer changes from neutral to stable stratification in the summer when fresh water from melting snow and ice flows beneath the ice. Another feature is the step structure in both temperature and salinity at depths between 250 and 400 m. Individual steps are about 3 m in height. In this part of the Arctic Ocean there are mesoscale baroclinic eddies with unique temperature and salinity, as well as velocity signatures. These eddies are mostly found within the range of 50 to 400 meters. Deeper anomalies are observed to a depth of 700 meters, but because of the depth limitation of the STD, little is known about their lower structure.

This report pertains to the STD (CTD) data taken at the manned Camp Caribou. The STD data associated with the other three manned camps are in separate volumes (Bauer, et al, 1980). Profiling current meter (PCM) data to a maximum depth of 200 meters were taken concurrently at the four camps and are separately reported by Manley et al, 1980.